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& Magic Trackpad



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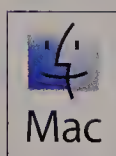


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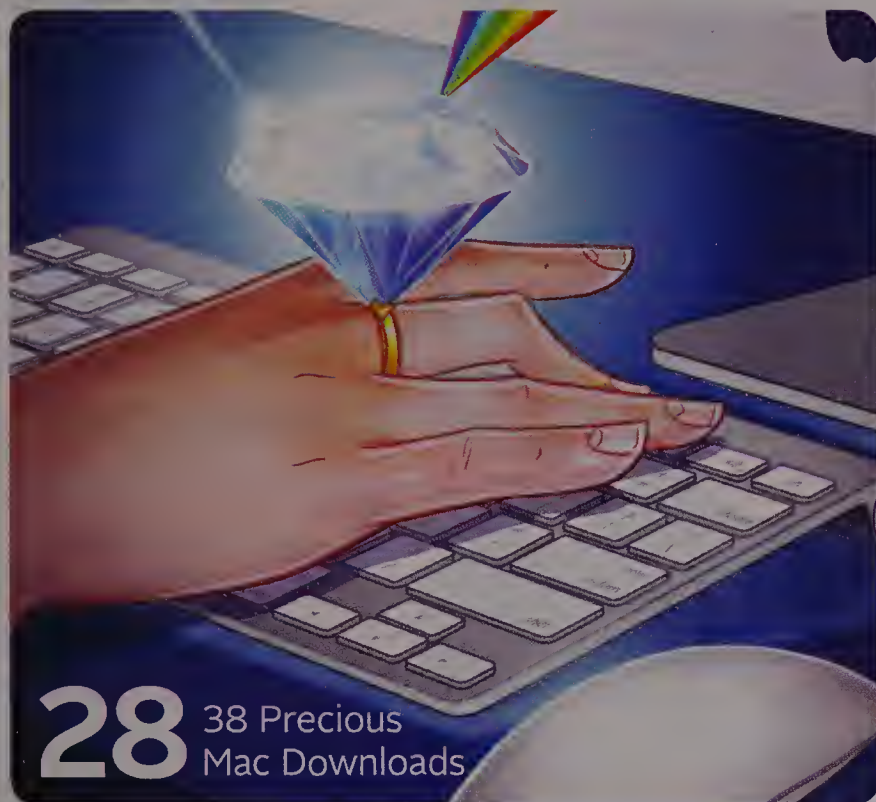
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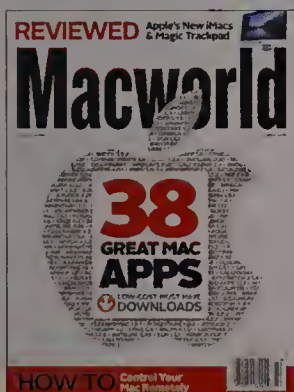
October 2010



28 38 Precious Mac Downloads



44 Pulling the Strings



On the Cover
Design by Rob Schultz;
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COVER STORY

28 38 Precious Mac Downloads

Do more with your Mac by downloading these free and inexpensive Mac Gems.

FEATURE

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Check out our latest podcasts, slideshows, and videos


Podcast: Apple's Hardware Announcements

We discuss Apple's shift in focus back to Mac hardware with its release of new Mac Pro and iMac models (macworld.com/6441).

We also recommend:

Video: Demonstration of Magic Trackpad Gestures (macworld.com/6442).

Slideshow: Hands On with Apple's Magic Trackpad (macworld.com/6443).

Podcast: Summer of Mac Gems (macworld.com/6444).

Video: Amazon's New Kindle (macworld.com/6445).

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Fair Use in the Age of Piracy

We want to help readers make their lives better—not help them steal what's not theirs

A few months ago, I received an e-mail from a reader who was furious because we'd published an article about how to copy DVDs to iPhones, iPods, and iPads. He said it was "shameful" that we were teaching our readers "how to steal."

It wasn't the first time I'd received that kind of reaction to our video-conversion coverage from a reader or member of the entertainment industry. This is a complex issue, with both legal and ethical considerations. But here, briefly, is why *Macworld* publishes these stories.

Consumer Rights

We feel strongly that consumers have the right to copy the contents of DVDs they have purchased to devices under their control. While it's illegal in the United States to write or distribute software that can decode DVDs, the law doesn't extend to people who *use* such software.

Whenever we cover this topic, we point out that users should *never* use such software to copy discs they don't own or to distribute copies to friends. (You can read our extended FAQ about DVD ripping at macworld.com/6455.) I explained this to the fellow who sent me the angry e-mail, but he seemed to think my true purpose was to make it easier for people to pirate things.

The fact is, tools such as HandBrake (handbrake.fr) can be used for unethical purposes. But they can also be used to transfer your son's favorite DVD onto an iPod so he can watch it during a long car trip. The editors here at *Macworld* believe that we shouldn't avoid talking about tools that can be used to improve our readers' lives just because they might also be used for unsavory purposes.

Avast, Matey

We live in an age of piracy. Every album, movie, and comic book that's released is posted online by pirates the same day.



You have the right to copy DVDs you've purchased to devices under your control.

When Steve Jobs launched iTunes, he made the point of acknowledging that Apple was competing with pirated music downloads. He argued that people would choose iTunes because it provided a more reliable level of quality *and* "good

karma" because iTunes music was purchased legitimately, not pirated.

I believe most people want to do the right thing and compensate the producers of the items they consume. But there will always be people who *won't* do the right thing. The problem with antipiracy laws and digital copy-protection schemes is that committed pirates inevitably find ways to circumvent them, while regular, law-abiding people are penalized. Antipiracy laws haven't prevented a single DVD from being posted to a BitTorrent tracker, but they've prevented users from watching DVDs they own on their iPads.

Chances are good that one of our articles has taught someone how to use technology unethically. But I'd wager that most people have used our information as we've intended: To improve their lives while operating within the spirit of copyright law. Showing you how to use technology to make your life better is the whole reason we're here.

E-mail me at jsnell@macworld.com, or read my innermost thoughts at twitter.com/jsnell.

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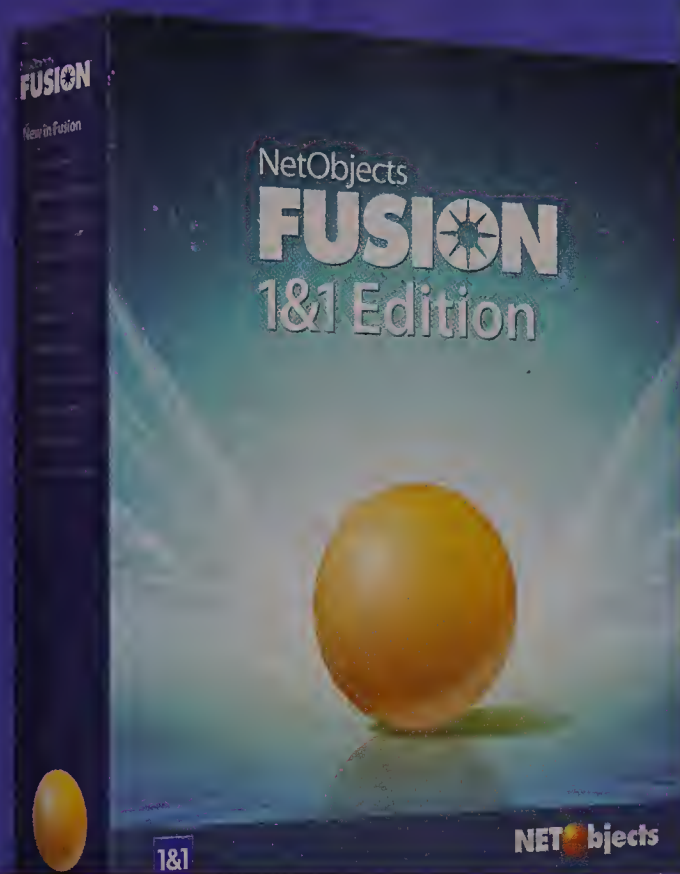
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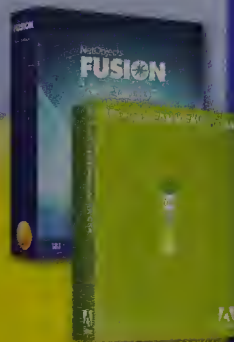


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iMacs New at the Core

Faster processors provide small boost over their predecessors

BY ROMAN LOYOLA

REVIEW

There's little doubt that, for Apple, 2010 is the year of the iPad and iPhone. But the Mac is still very much in the picture and remains an important product—both to Apple and to the customers who use it. And though the four new iMacs (two 21.5-inch models and two 27-inch models) released in July provide only small speed boosts, these latest desktops will make most customers very happy.

Standard Equipment

The Intel Core 2 Duo processors found in the lower-end iMacs of the previous generation are gone. Apple now uses Dual-Core Intel Core i3 processors with 4MB of Level 3 (L3) cache in three of the new iMacs; the \$1199 21.5-inch iMac has a 3.06GHz Core i3, while the \$1499 21.5-inch iMac and the \$1699 27-inch iMac both feature 3.2GHz Core i3 processors. The fourth iMac, a \$1999 27-inch model, sports a 2.8GHz Core i5 quad-core processor with 8MB of L3 cache.

The differences between the iMac processors go beyond clock speed and number of cores, however. The 3.06GHz Core i3 in the \$1199 iMac and the 3.2GHz Core i3 in the \$1499 and \$1699 iMacs support Hyper-Threading, which allows the processor to use virtual cores to better handle heavy workloads; but these models don't support Turbo Boost, where the processor shuts down unused cores and boosts the speed of the active core. The 2.8GHz Core i5 quad-core processor in the \$1999 iMac doesn't support Hyper-Threading, but it supports Turbo Boost.

All of the iMacs come with 4GB of 1333MHz DDR3 SDRAM installed as a pair of 2GB SO-DIMMs. With a total of



four memory slots, you can add more SDRAM without having to replace the memory that comes with the iMac.

The iMacs use 7200-rpm hard drives; the \$1199 iMac has a 500GB drive, and the other three have 1TB hard drives. All four iMacs have 8X SuperDrives, and right next to the SuperDrive slot is an SD Card slot, which has been upgraded to support SDXC, a new format that allows for SD Card capacities over 32GB.

The external ports haven't changed from the previous iMac generation. There's a minijack for audio in, a minijack for audio out, four USB 2.0 ports, one FireWire 800 port, a Mini DisplayPort (with video-in support), and a gigabit ethernet port. The iMacs also come standard with Wi-Fi, Bluetooth, and a built-in iSight camera.

New Graphics, Same Displays

Besides the system processors, the graphics processors are the other major change with the new iMacs. Integrated graphics processors that use a portion of main memory for video memory are no longer used in any of the iMacs. All four

models use ATI discrete graphics, which have dedicated video RAM.

The 3.06GHz Core i3 iMac has a 256MB Radeon HD 4670, which was used in the previous \$1499 3.06GHz Intel Core 2 Duo iMac. The two new 3.2GHz iMacs have 512MB Radeon HD 5670 graphics, while the 2.8GHz Core i5 iMac uses a 1GB Radeon HD 5750.

As for the displays, they're the same 8-bit, 16:9 displays as those of the previous iMac generation: LED-backlit TFT active-matrix LCDs with in-plane switching. The 21.5-inch display has a 1920 by 1080 native resolution, and the 27-inch display has a native resolution of 2560 by 1440. The viewing angle seems to be the same as that of the previous iMacs, which is good; there's no noticeable color shift when you view from an angle.

If you're still holding out hope for an iMac with a nonglossy screen, I hate to tell you this, but it's time to move on. The new iMacs all have a glass front, which creates a glossy effect with the screen. Apple seems to like this particular iMac design, and an antiglare screen isn't in the company's plans. I've had different

iMac models on my desk for quite some time now and I've adapted, but if you can't figure out how to cope with the glare and reflections, you'll have to consider a Mac mini or Mac Pro and provide your own non-glossy display.

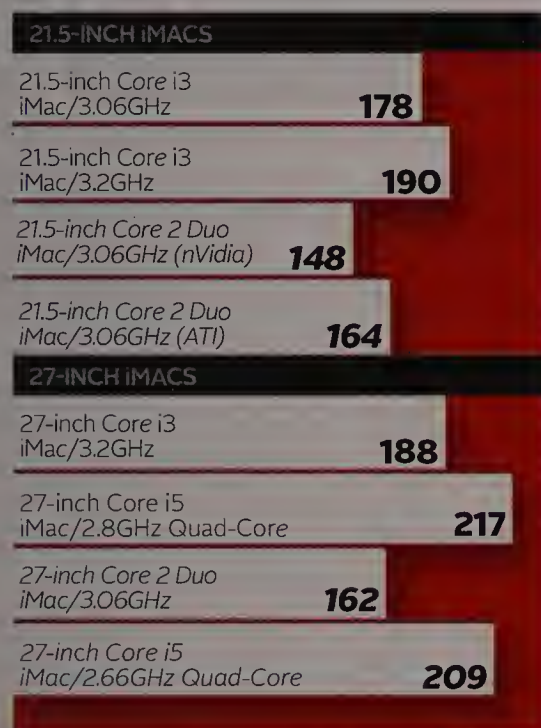
Speed Results

Macworld Lab tested the new iMacs with the Speedmark 6 benchmark suite to find out how well they perform overall. Generally, we saw moderate speed boosts over the previous generation of iMacs.

In our testing, the new 21.5-inch 3.06GHz Core i3 iMac showed the most dramatic boost over its predecessor, a 21.5-inch 3.06GHz Core 2 Duo iMac; the new model showed an impressive 20 percent overall increase in Speedmark 6. This new \$1199 iMac, with its dedicated ATI Radeon HD 4670 graphics processor, has its biggest gain in graphics performance, with a frame rate in our Call of Duty 4 test that was nearly four times that of the older 3.06GHz Core 2 Duo iMac, which uses an integrated nVidia GeForce 9400M chip.

Macworld Lab Test

Speedmark 6 Test Results



Longer bars are better. Reference systems are in *italics*. Speedmark 6 scores are relative to those of a 2.13GHz Core 2 Duo MacBook, which is assigned a score of 100. All new iMacs were running Mac OS X 10.6.4. Reference iMacs were running Mac OS X 10.6.1. For complete benchmark test results for the 21.5-inch iMacs, visit macworld.com/6453; and for the 27-inch iMacs, visit macworld.com/6454.—MAC-WORLD LAB TESTING BY JAMES GALBRAITH, BLAIR HANLEY FRANK, CHRIS HOLT, AND MCKINLEY NOBLE

The two middle iMacs with the 3.2GHz Core i3 processor—the \$1499 21.5-inch model and the \$1699 27-inch model—showed more-modest improvements on their same-size predecessors with 3.06GHz Core 2 Duo CPUs (and discrete graphics). The new iMacs' scores showed about a 16 percent bump. And compared with the new 3.06GHz Core i3 iMac, the two new 3.2GHz Core i3 iMacs notched about a 7 percent improvement when running the Speedmark 6 benchmarks.

The new top-of-the-line iMac, a 27-inch 2.8GHz Core i5 quad-core iMac, is now the fastest standard-configuration Mac we've tested, though its boost over its predecessor, a Quad-Core 2.66GHz Core i5 iMac, was small—just about 4 percent in its SpeedMark 6 overall test score. In individual-application testing, the two iMacs showed very similar performance. The new quad-core iMac showed the biggest improvement in our Call of Duty 4 frame-rate tests, where the new model was 35 percent faster.

Macworld's Buying Advice

The iMac continues to be an attractive all-in-one computer for families, home offices, and businesses. If you're looking for a new Mac or you're thinking about upgrading a desktop Mac that's at least a couple of years old, you'll be satisfied with the features and performance. If you bought a late-2009 iMac, the reasons to upgrade aren't very compelling, unless you have the previous \$1199 iMac with the integrated graphics and you want better graphics performance for playing games.

21.5-inch Core i3 iMac/3.06GHz:

★★★★; \$1199; Apple, www.apple.com; full review, macworld.com/6432

21.5-inch Core i3 iMac/3.2GHz:

★★★★; \$1499; Apple, www.apple.com; full review, macworld.com/6433

27-inch Core i3 iMac/3.2GHz:

★★★★; \$1699; Apple, www.apple.com; full review, macworld.com/6434

27-inch Core i5 iMac/2.8GHz quad-core:

★★★★; \$1999; Apple, www.apple.com; full review, macworld.com/6435

Apple's Magic Trackpad

New device adds Multi-Touch to desktop Macs

BY DAN FRAKES



REVIEW

Apple's Magic Trackpad is a

stand-alone, Bluetooth trackpad that uses the same glass surface as the trackpad on Apple's MacBook Pro laptops and also supports Multi-Touch trackpad gestures.

The available gestures are identical to those you can use on a MacBook: Besides moving the cursor, you can click, right-click, double-click, click-drag, two-finger scroll, two-finger rotate, two-finger pinch and zoom, two-finger screen zoom, three-finger swipe, and four-finger swipe.

The Magic Trackpad also has a couple of new gestures. The first lets you scroll with inertia, which gives your scrolling documents and windows a bit of virtual momentum. The second option takes the three-finger gesture, which previously could be used only to navigate (turn pages, flip through photos, or switch Safari tabs, for example), and lets you instead use it as a substitute for click-drag.

Macworld's Buying Advice

The Magic Trackpad incorporates the same glass surface and Multi-Touch gestures found on Apple's laptops and packages them in a wireless desktop peripheral—and with the added bonus of nearly twice the trackpad area.

★★★★; \$69; Apple, www.apple.com; full review, macworld.com/6436

The Mac Pro Upgrades

Customers have 12-core option available

BY DAVID CHARTIER

Apple's desktop workstation, the Mac Pro, now features up to 12 CPU cores for what Apple says is a 50 percent performance improvement on its predecessor.

"In terms of the processor, we're adding Intel's latest generation Xeon technology, the Westmere generation of products," says David Moody, Apple vice president of worldwide Mac hardware marketing, referring to the Intel code name for the processor line. The new chips feature a 32-nanometer process that can fit up to six cores on a single die.

The new Mac Pro features a pair of either quad-core or six-core Intel Xeon processors, with up to a 12MB Level 3 (L3) cache and speeds

ranging from 2.66GHz to 3.33GHz. "The combination of the cache and the integrated memory controller provides outstanding memory bandwidth and improved memory latency," Moody told *Macworld*.

The new Mac Pro also features Turbo Boost, which allows the system to dynamically boost CPU speeds up to 3.6GHz, and Hyper-Threading, which allows the system to create up to 24 virtual cores.

A first for the Mac Pro line, customers can slip a 512GB solid-state drive (SSD) into one or all four of the drive bays. By filling all four drive bays with SSDs, users can create a striped RAID.

The ATI Radeon HD 5770 graphics card with 1GB of GDDR5 memory is now



Custom Rig Apple says that there are 1.3 billion possible configurations of the Mac Pro.

standard, though customers can substitute the faster ATI Radeon HD 5870, also with 1GB of GDDR5 memory. Both of these cards feature dual Mini DisplayPorts and one dual-link DVI port, allowing you to connect two LED

PHOTOGRAPHS COURTESY OF APPLE



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Cinema Displays without the need for a second video card.

The new Mac Pros will be available in August. While the entry-level quad-core model starts at \$2499, Apple puts great emphasis on the custom order options, saying that most Mac Pro customers choose to configure the machine to their own particular needs. "We played a game here this morning," Apple's Moody told *Macworld*. "We found that there's 1.3 billion possible configurations of the Mac Pro. You can really go and build the configuration you want."

Apple offers two base models. The \$2499 model features a single four-core 2.8GHz processor, 8MB of L3 cache, 3GB of DDR3 memory, ATI Radeon HD 5770 graphics, and a 1TB hard drive. The \$3499 model comes with two four-core 2.4GHz CPUs and 12MB of L3 cache; it also ships with 6GB of RAM, ATI Radeon HD 5770 graphics, and a 1TB hard drive. Users can customize the processor, graphics, memory, and storage options.

New 27-Inch LED Cinema Display

Display features iSight camera, speaker, USB hub

BY MARCO TABINI

Apple has released a new 27-inch LED Cinema Display, the latest offering in its line of monitors for the Mac.

The new display features 2560-by-1440-pixel resolution and 60 percent more screen real estate than its smaller 24-inch cousin. The design features a 16:9 edge-to-edge arsenic-free glass display on an aluminum stand and an adjustable hinge to control the screen's viewing angle.

An ambient light sensor automatically adjusts the screen's LED emitter brightness in response to environmental conditions. That feature joins the display's other environmental qualifications, such as a toxin-free



construction that eschews arsenic, mercury, PVC, and BFRs. Apple also uses highly recyclable aluminum and glass in building the enclosure. The display has earned EPEAT Gold status

and meets the Environmental Protection Agency's Energy Star 5.0 qualifications.

The new Cinema Display includes a built-in iSight camera, speakers (with an integrated subwoofer), a microphone, a powered three-port USB 2.0 hub, and a universal MagSafe adapter for charging a connected MacBook or MacBook Pro. Apple says that the 27-inch LED Cinema Display will arrive in September for \$999. Apple's two older LED Cinema Displays, a 24-inch model and a 30-inch model, are being phased out.

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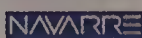
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MobileMe Calendar Gets New Look

Web application looks like its iPad counterpart

BY DAVID CHARTIER

Apple unveiled a revamped Calendar for MobileMe in July. And if you've ever seen Calendar on an iPad, you'll probably experience a little déjà vu.

Calendar still employs the typical three-pane approach (a list of calendars on the left, events in the middle, and to-dos on the right), but it inherits the iPad version's List view for events. This view displays events in a straight chronological list in one column, with a single-day column to the right containing an hourly play-by-play for the currently selected day.

The Day view is the only other interface mode that sees a significant redesign. It now mimics a two-page day planner layout. The left page features a small 30-day calendar at the top and a straight list of the day's events, while the right page displays events by hour.

Thanks to Apple's shift to the CalDAV standard for its MobileMe calendar, you can share calendars with other users and selectively allow read and/or write access, but only with other MobileMe members.

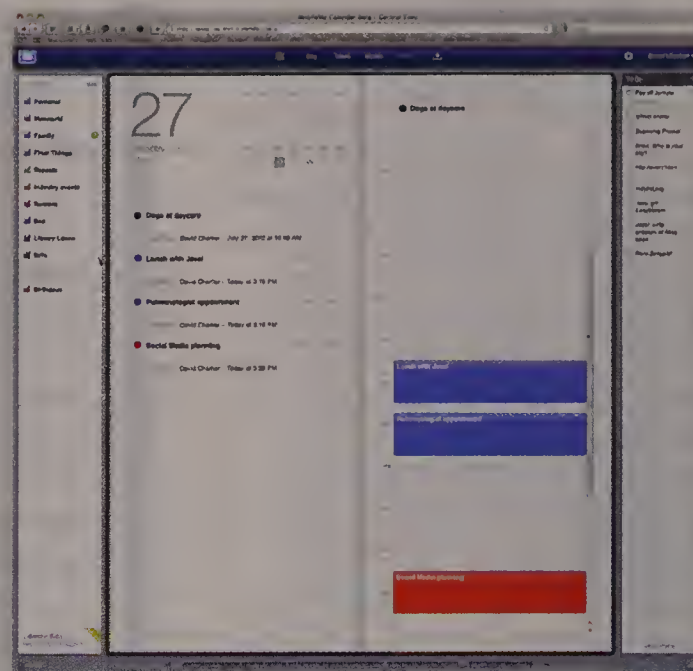
Apple has also answered a longtime request of users of MobileMe's Web-based Calendar app by adding event invitations. You can now invite others to an event regardless of which e-mail service they use.

Apple's shift to CalDAV for MobileMe Calendar means that some third-party programs may not be compatible yet; BusyCal was the first to confirm as much. This incompatibility is annoying, but probably only temporary—BusyCal and other programs will release software updates to make them compatible.

If you own an iPhone, iPod touch, or iPad, you may need to manually configure some settings to let those devices continue accessing your calendars. iOS 4 supports CalDAV under MobileMe accounts, so if you are already syncing your cal-





endars with your iOS 4 device, you should be all set. iPhone OS 3, however, does not support CalDAV under MobileMe, so Apple provides instructions for setting up such devices (this includes the iPad, which currently runs iPhone OS 3.2).

Between the familiar, iPad-like interface and sharing features that finally let me collaborate without third-party add-ons, I'm happy to use MobileMe



Three Columns The new Day view features your calendars, the day's schedule, and a to-do list.

Calendar when I'm away from my Mac or when I don't feel like starting up iCal on my MacBook Pro.

Macs: Current Lineup							
PRODUCT	SPECS	RATING	PRICE	DISPLAY	SPEED-MARK 6 ^A	FIND CODE ^B	
DESKTOP							
 iMac	Intel Core i3/3.06GHz	★★★★	\$1199	21.5 inches	178	6432	
	Intel Core i3/3.2GHz	★★★★	\$1499	21.5 inches	190	6433	
	Intel Core i3/3.2GHz	★★★★	\$1699	27 inches	188	6434	
	Intel Core i5/2.8GHz quad-core	★★★★	\$1999	27 inches	217	6435	
 Mac Mini	Intel Core 2 Duo/2.4GHz	★★★★	\$699	not included	117	6304	
 Mac Pro	Intel Xeon/2.8GHz (quad-core)	none ^C	\$2499	not included	none ^C	6458	
	Intel Xeon/2.4GHz (eight-core)	none ^C	\$3499	not included	none ^C	6459	
	Intel Xeon/2.66GHz (12-core)	none ^C	\$4999	not included	none ^C	6460	
PORTABLE							
 MacBook	Intel Core 2 Duo/2.4GHz (white)	★★★★	\$999	13 inches	118	6207	
 MacBook Air	Intel Core 2 Duo/1.86GHz	★★★★½	\$1499	13 inches	70	4953	
	Intel Core 2 Duo/2.13GHz	★★★★½	\$1799	13 inches	72	4954	
 MacBook Pro	Intel Core 2 Duo/2.4GHz	★★★★	\$1199	13 inches	118	6151	
	Intel Core 2 Duo/2.66GHz	★★★★½	\$1499	13 inches	126	6152	
	Intel Core i5/2.4GHz	★★★★½	\$1799	15 inches	146	6153	
	Intel Core i5/2.53GHz	★★★★	\$1999	15 inches	150	6154	
	Intel Core i7/2.66GHz	★★★★	\$2199	15 inches	161	6155	
	Intel Core i5/2.53GHz	★★★★	\$2299	17 inches	154	6208	

^A Speedmark 6 is Macworld Lab's standard test tool for benchmarking systems running Mac OS X 10.6 (Snow Leopard). For more information on Speedmark testing, go to macworld.com/5503. ^B In a browser's address field, typing in a find code after macworld.com/ takes you to a product's review or overview. ^C Systems are new and have not yet been tested or rated.

Now smiling on more than just Macs.



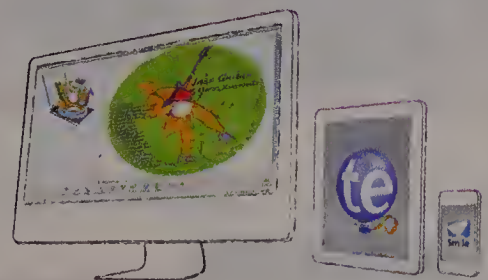
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What We're Raving
about This Month

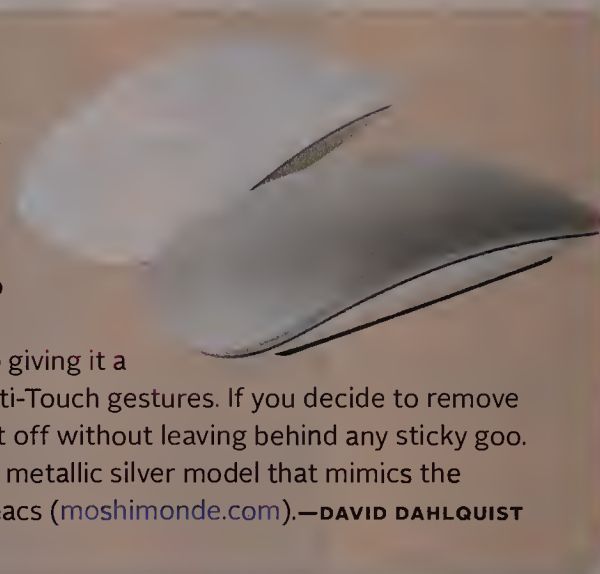
Wireless Keyboard Cases

One of the great things about Apple's Bluetooth Wireless Keyboard is its size: It's a full-size keyboard that's compact and light enough to stuff into nearly any laptop—or iPad—bag. But how do you protect your keyboard from banging around with the other contents of your bag? WaterField Designs offers four handy cases featuring varying degrees of protection and capacity. The \$15 Socket offers the basic protection of a fabric sleeve; the \$29 Slip is a semi-rigid sleeve with padded lining; the \$39 to \$42 Sleeve gives you thick padding and a snap-shut closure; and the \$49 Travel Case adds padded storage for your mouse, power adapter, and a few cables and other necessities (sfbags.com).—**DAN FRAKES**



MouseGuard

It's not always easy keeping the Magic Mouse looking sleek. For those who want to protect their Magic Mouse's shiny surface, Moshi offers the \$15 MouseGuard. You affix this film to the top of the Magic Mouse, which protects it from your hands while also giving it a better surface for you to perform Multi-Touch gestures. If you decide to remove the MouseGuard, you can easily peel it off without leaving behind any sticky goo. Choose between a white model and a metallic silver model that mimics the brushed-aluminum styling of newer Macs (moshimonde.com).—**DAVID DAHLQUIST**



SyncMate 2

You own a Mac, but you also own a Droid, a Nexus One, or that hot young Windows Mobile phone from HTC, and syncing it to your Mac is a hassle. Eltima Software feels your pain and has come to the rescue with SyncMate. The list of gizmos SyncMate will talk to is staggering: Windows Mobile, Nokia Series 40, Android, other Macs, Windows PCs (XP and Vista), and many more. SyncMate also lets you synchronize folders to online data storage, adding protection with encryption and passwords. You can sync iTunes audio and video files, iPhoto albums, Address Book, iCal appointments and tasks, Firefox or Safari bookmarks, Entourage or Mail notes, and more. SyncMate requires Leopard or Snow Leopard, and costs \$40 for the Expert version (mac.eltima.com).—**JEFF PORTEN**

XtremKey

LaCie's XtremKey (\$50 to \$250, depending on capacity) hides a compact flash-drive module and USB 2.0 connector inside a 2mm-thick, metal-pipe casing made of zamac alloy. The company notes that it can withstand being run over by a 10-ton truck. Wear-resistant screw threads and a waterproof (up to 100 meters) seal keep out the elements. According to LaCie, the XtremKey can survive heat up to 200 degrees Celsius, cold down to -50 degrees Celsius, and drops from as high as 5 meters (lacie.com).—**DAN FRAKES**



PHONE DISK

iOS 4's File Sharing feature requires users to go through iTunes to add or remove files to or from an iOS device; Macroplant's Phone Disk simplifies that process by granting access to your iPhone, iPod touch, or iPad through the Finder. You can view, add, or remove files from each app's Document Sharing folder; books, photos, podcasts, purchases, and voice memos are also accessible in their respective folders. If you add photos to iOS's default DCIM (Digital Camera Images) folder, Phone Disk will automatically rename them so you can view them on the device's Camera Roll. The program is free through December 1, 2010 (macroplant.com).—**SERENITY CALDWELL**





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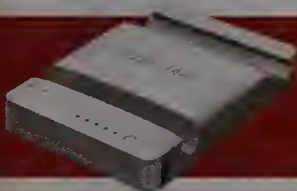


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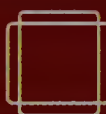


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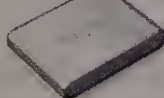
HyperMac Nano
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Recharge iPhone 1.5x
Sleek aluminum casing
Available 10 colors



HyperMac Micro
3600mAh
Recharge iPhone 3x or
Extend iPad's battery
life up to 15 hrs



HyperMac Mini
7200mAh
Recharge iPhone 6x or
Extend iPad's battery
life up to 20 hrs



HyperMac 60Wh
16000mAh
Extend battery life of
MacBook up to 19 hrs
or iPad up to 34 hrs



HyperMac 100Wh
27000mAh
Extend battery life of
MacBook up to 26 hrs
or iPad up to 50 hrs



HyperMac 150Wh
41000mAh
Extend battery life of
MacBook up to 34 hrs
or iPad up to 70 hrs



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The Case for Cases

Cases have always been popular iPhone add-ons. With the iPhone 4, they may be a necessity.

BY DAVID CHARTIER

As long as there have been iPhones, there have been cases to put them in. And for good reason—the palm of your hand isn't always a stable place. That iPhone might slip, and a drop to the ground isn't likely to improve its looks. Cases give you a way to protect your iPhone from the bumps and bruises of everyday living.

But if cases were appealing before, they're pretty much an essential item now. Some of Apple's design choices for the iPhone 4 cry out for a case.

What Changed

Apple made two fundamental changes to the iPhone's design this time around. The company is using a new kind of glass, called *aluminosilicate*, for the phone's front and back that's durable but not indestructible. We've already seen a few instances of iPhone 4 panels



Case Closed Griffin Technology's Reveal Etch is just one of the more than half-dozen cases Apple is offering to iPhone 4 users for free.

cracking from tumbles. A protective case is practically a must-have.

But the more significant design change in the new iPhone revolves around its antenna design. Apple decided to wrap the iPhone 4's various antennas (for Bluetooth, Wi-Fi, and

AT&T's GPRS) in a stainless steel band around the outside of the device. This left room inside the iPhone 4 to cram in new hardware, including a battery that is 16 percent larger and a three-axis gyroscope for more sophisticated games and augmented-reality apps. And, in many cases, the antenna design

has even improved the iPhone 4's ability to maintain phone calls, hold a signal in spotty areas, and send and receive data more quickly. But this exterior antenna design also means that, if you hold the iPhone 4 so that you bridge the antenna gap on the lower left edge with your hand in just the right way, you might experience signal degradation. Some people might even find that the iPhone 4's signal drops altogether.

Apple contends that the problem isn't unique to the iPhone, and the company even went so far as to set up a Web page (macworld.com/6398) that shows other phones suffering from signal attenuation. Apple also says that only a handful of users have complained about issues related to the phone's antenna.

Fortunately, most cases should mitigate any potential for signal problems because they keep your skin—the conductive bag of water that it is—away from the iPhone 4's antenna. Whether made of plastic, leather, or *poly-whatever*, a case will keep

iPhone 4 Case Options

Apple's offer of a free iPhone 4 case includes the following:

COMPANY	CASE	RATING	MORE INFO *
Apple	iPhone 4 Bumper	★★★★	6400
Belkin	Shield Micra	★★★★½	6399
Griffin Technology	Motif	★★★★	6401
Griffin Technology	Perforated Silicone	n/a	6404
Griffin Technology	Reveal Etch	★★★★½	6402
Incase	Snap Case	n/a	6403
Speck	Fitted Case	★★★★	6405
Speck	PixelSkin HD	★★★★½	6406

n/a = not applicable. * In a browser's address field, typing in a find code after macworld.com/ will lead you to more information about each of these cases. For instance, macworld.com/6400 will lead you to more information about Apple's iPhone 4 Bumper case.

your palm and fingers at least a millimeter or two away from the antenna bridge, allowing your iPhone 4 to grab the best signal available.

Cases for Everyone

To help defuse concerns over iPhone 4 signal problems, Apple launched a program (macworld.com/6407) that offers seven third-party cases, as well as its own iPhone 4 Bumper in black, completely free to iPhone 4 customers who bought their phones before September 30. (Apple may extend the program beyond that date. "We'll reevaluate it in September," CEO Steve Jobs said when announcing the giveaway.)

The cases Apple offers for free are all solid choices (see "iPhone 4 Case Options" for more details). They differ mostly in the textures used on the back and whether they bulk up just a smidge to cover the iPhone 4's power and volume buttons with built-in, protective shells, or whether they get a little

thinner and use cut-outs to expose those buttons.

If you'd rather buy exactly the case you want, though, your options include a wide gamut of features, styles, and materials. Some from BodyGuardz and GelaSkins are ultrathin, essentially full-body stickers that cover the front, back, and sides of the iPhone 4. Slightly thicker cases from makers like Incipio and Case-mate are typically made of polycarbonate or thin plastic, which guards against dust and scratches.

No matter which kind of case you want to protect your iPhone 4 with, chances are there's an accessory maker ready to fulfill your need. Despite some backlash, the iPhone 4 has turned out to be Apple's most successful product launch ever—the company sold more than 3 million units in less than a month after the iPhone 4 launch. That's a lot of customers who will want to make sure that their new phone is protected from whatever life throws at it.

iOS 4.0.1: What It Means for Signal Strength

BY DAVID CHARTIER

Swaddling your iPhone 4 in a case may help alleviate some of the phone's reception problems. But what about *another* iPhone reception issue—this one involving inaccurately reported signal strength?

The problem actually affects more than just the iPhone 4, according to a July statement by Apple (macworld.com/6384). The company revealed that it's been using the wrong formula when calculating how many bars of signal strength to display on its phones. "Our formula, in many instances, mistakenly displays 2 more bars than it should for a given signal strength. For example, we sometimes display 4 bars when we should be displaying as few as 2 bars," the company stated.

Enter iOS 4.0.1, an update aimed at making the iPhone 4 (and the iPhone 3G and 3GS) more honest—at least when it comes to signal strength. The update essentially spreads out the scale for measuring, reporting, and acting on its signal strength. When an iPhone 4 received a signal worthy of what was really only three bars (−87 dBm—decibels referenced to 1 milliwatt—or lower), for example, it was reporting five bars. Under iOS 4.0.1, the signal range is spread out much more proportionately between the five bars. Just as important, though, is that iOS's sensitivity for maintaining a call or data connection at extremely low signal levels has actually improved somewhat. (For a more detailed report, read Anandtech's account at macworld.com/6385.)

The bottom line: iOS 4.0.1 won't put an end to problems with signal attenuation. But the update provides another piece of the solution to improving your iPhone experience.

iPads and iPhones: Current Lineup

PRODUCT	SPECS	RATING	PRICE ^A	DISPLAY	PERFORMANCE	FIND CODE ^B
	16GB	Wi-Fi,  ; 3G, 	Wi-Fi, \$499; 3G, \$629	9.7-inch color	Up to 10 hours on Wi-Fi; up to 9 hours on 3G	6000 Wi-Fi 6001 3G
	32GB	Wi-Fi,  ; 3G, 	Wi-Fi, \$599; 3G, \$729	9.7-inch color	Up to 10 hours on Wi-Fi; up to 9 hours on 3G	6002 Wi-Fi 6003 3G
	64GB	Wi-Fi,  ; 3G, 	Wi-Fi, \$699; 3G, \$829	9.7-inch color	Up to 10 hours on Wi-Fi; up to 9 hours on 3G	6004 Wi-Fi 6005 3G
	8GB (3GS)		\$99	3.5-inch color	9 hours of Wi-Fi Internet; 5 hours of 3G talk time	6255
	16GB (4)		\$199	3.5-inch color (Retina)	10 hours of Wi-Fi Internet; 7 hours of 3G talk time	6256
	32GB (4)		\$299	3.5-inch color (Retina)	10 hours of Wi-Fi Internet; 7 hours of 3G talk time	6257
	8GB		\$199	3.5-inch color	30 hours of music playback; 6 hours of video playback	3864
	32GB		\$299	3.5-inch color	30 hours of music playback; 6 hours of video playback	5257
	64GB		\$399	3.5-inch color	30 hours of music playback; 6 hours of video playback	5258

^AAll prices are Apple's prices. ^BIn a browser's address field, typing in a find code after macworld.com/ takes you to a product's review or overview.

Databases Hit the Road with FileMaker Go

BY PHILIP MICHAELS

The iPhone may fit in your pocket, and the iPad may not be much larger than a hard-cover book, but FileMaker thinks it can fit an entire database application on each device. The company has released FileMaker Go—a mobile application in iPhone and iPad versions—that gives you access to databases created with the venerable FileMaker Pro desktop program.

You won't be able to create databases on your iPhone or iPad with FileMaker Go. But you will be able to work remotely with FileMaker Pro databases on your mobile device, viewing, searching, and editing information from wherever you are.



"The thing that's cool [about FileMaker Go] is not that we've done it, but how we did it," Ryan Rosenberg, vice president of marketing and services for FileMaker, told *Macworld*. Although the mobile app can't do everything its desktop counterpart can pull off,

Rosenberg says, it's still a pretty full-featured version of FileMaker.

To that end, FileMaker Go for both the iPhone and the iPad can run most databases created in FileMaker Pro 7 or later, with no customization required. Layouts,

lists, forms, and tables look the same on a mobile device as they do on a desktop computer. FileMaker Go also supports most scripts used in desktop databases.

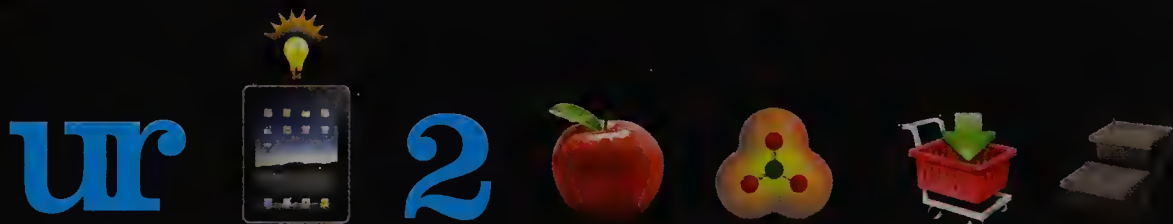
With FileMaker Go, you can access databases on a Mac or PC over either a local wireless network or a Wi-Fi or 3G connection. (Database hosting requires version 10 or 11 of either FileMaker Server or FileMaker Pro.) When you connect to databases via a network connection, changes you make remotely appear in the stored database instantly—and vice versa.

In addition, you can use File Sharing in iTunes to copy databases from your desktop onto your mobile device for use with FileMaker Go. You can download databases via e-mail as well, using the Document Support feature in iOS 4 (and iPhone OS 3.2 on the iPad) to open Mail attachments directly in FileMaker Go.

Your iPhone/iPad Idea* to Fruition in 2 Steps

1 Bring your application idea to Zco

2 Zco designs and develops your app

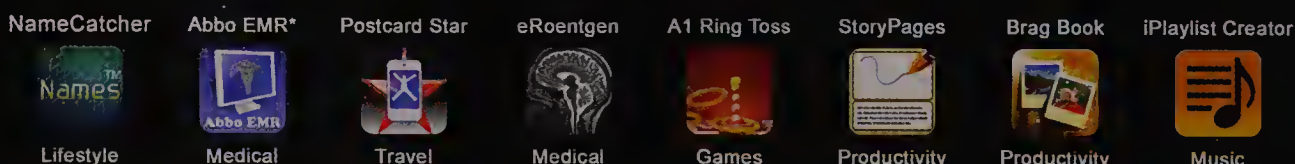


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You can also download databases from Websites or file-sharing services, Rosenberg says.

You can do most anything with FileMaker Go that you can do with the desktop version of the program—add or change data, peruse records, switch between layouts, and open new windows. The mobile app supports FileMaker features such as Quick Find, Web Viewers, External SQL Data Sources, containers, and portals.

But FileMaker also built its mobile offering with iOS-specific features in mind. FileMaker Go supports touch gestures—pinching, swiping, and tapping—to manage data. You can access value lists and, with a tap, fill in fields, minimizing the amount of typing you have to do with the on-screen keyboard.

FileMaker Go for the iPhone (macworld.com/6383) costs \$20, while the iPad version (macworld.com/6382) costs \$40. The iPhone version runs on any iPhone or iPod touch running iOS 4, and FileMaker Go for the iPad runs on iPhone OS 3.2 or later.

Safeguard Your iTunes Account

BY MARTYN WILLIAMS AND PHILIP MICHAELS

A developer who apparently used fraudulent purchases to make his products skyrocket up the App Store best-seller lists has gotten the heave-ho from Apple. This incident underscores the importance of using good password practices when shopping online.

In early July, offerings from developer Thuat Nugyen claimed more than 40 of the 50 slots for top-selling apps in the Books category—a curious development considering that the apps had few user reviews. Other developers alerted Apple, which quickly removed the apps “for violating the developer Program License Agreement, including fraudulent purchase patterns,” according to a statement released by the company. All told, fraudulent purchases of Nguyen’s apps were made from around 400 iTunes accounts, according to Apple. “The

iTunes servers were not compromised,” Apple spokesperson Trudy Muller said.

Apple has tightened App Store security, asking app buyers for the credit card code verification number—typically a three-digit number on the back of the card. But users can take preventative steps of their own.

Review Your Purchases To make sure the apps you’ve been charged for are ones you’ve actually bought, access the Apple Account Information page from iTunes by clicking on your account name on the right side of iTunes’ menu bar. From there, you can see your purchase history.

Change Your Password You can change your password from within iTunes by clicking Edit Account Info. Dates, words, or simple strings like “1234” aren’t much of a safeguard. Long passwords containing numbers and special characters are harder to crack.

macally



**INTRODUCING
ALL NEW
ACCESSORIES FOR iPhone 4**
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Tests: iOS 4 and Battery Life

Owners of the iPhone 3G have reason to feel left out in the cold by the iOS 4 update. Some of the operating system's marquee features—most notably, multitasking support—won't run on the older phone, and we've also heard reports of sluggish performance by 3G phones running iOS 4. But at least the new OS won't drain your battery—in fact, our lab tests showed that the iPhone 3G enjoyed longer battery life with iOS 4.

Following the instructions elsewhere in this issue (see *Mac 911*, page 90), we downgraded an iPhone 3G that was running iOS 4 to iPhone OS 3.1.3 and ran a series of tasks. We then upgraded the iPhone 3G to iOS 4 and ran the same set of tasks.

The iPhone 3G with iOS 4 lasted 5 percent longer (10 minutes) than the iPhone 3G running iPhone OS 3. That's

	IPHONE 3G, IPHONE OS 3.1.3	IPHONE 3G, iOS 4.0	IPHONE 3GS, IPHONE OS 3.1.3	IPHONE 3GS, iOS 4.0
Phone Call	35	35	35	35
Wi-Fi Internet Surfing	16	16	16	16
Downloading Game on Wi-Fi	2	1	3	2
Playing Downloaded Game	10	10	10	10
3G Internet Surfing	15	15	15	15
Downloading Game via 3G	2	1	2	4
Playing Downloaded Game	20	20	20	20
Downloading Rented Movie	33	48	20	15
Watching Movie	67	64	126	165
Total Minutes	200	210	247	282

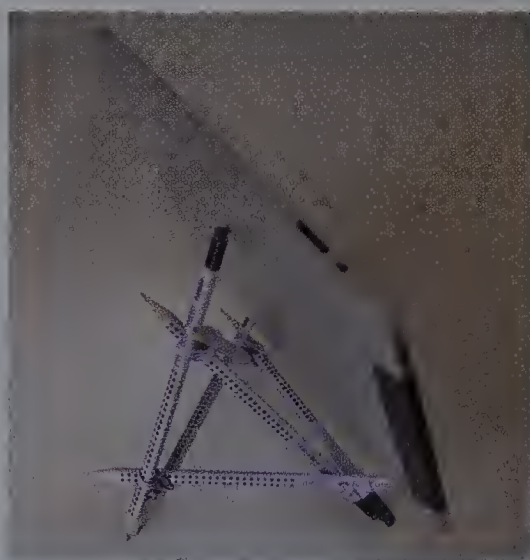
Numbers are in minutes. Each phone was fully charged and set to default brightness. For a complete overview of our testing methodology—including the tests we ran and how we installed the iOS on our iPhone models—see our full report at macworld.com/6425.—MACWORLD LAB TESTING BY BLAIR FRANK, JAMES GALBRAITH, AND MCKINLEY NOBLE

not a big difference, but at least the new OS doesn't mean diminished battery life for older phones.

We also wanted to see what the new OS means for the battery life of an iPhone 3GS so we repeated the tests on that phone. An updated iPhone 3GS lasted 14 percent longer (35 minutes) than one running iPhone OS 3.—**JAMES GALBRAITH**

Pencil Power

After you've spent up to \$829 on a new iPad, finding the extra scratch for a stand might prove challenging. Don't fret—with a little DIY magic, you can make your own cool, inexpensive iPad stand with just a handful of pencils and rubber bands. Julian Horsey of Geeky Gadgets (macworld.com/6461) whipped up this pencil iPad stand. His crafty design uses six pencils and four elastic bands to form a triangular base. A single pencil, reinforced by four other pencils, props the iPad upright. The pencils' erasers provide protection and friction for the iPad and grip for the stand's legs. Think of it as an affordable way to prop up your iPad, even if some assembly is required.—**DAVID DAHLQUIST**



What's New at the App Store



Calcbot Adds Up for iPhone, iPad

Tapbots is taking on the common calculator with Calcbot (macworld.com/6380), a hybrid mobile app that costs \$2. Turn your iPad sideways or swipe down on your iPhone, and the app displays a history tape that allows you to track progress, copy results and expressions to the calculator, or send computations via e-mail. Swipe the panel of buttons to the left to reveal a more advanced set of functions, like sine, cosine, degrees, and radians.—**NICHOLAS LEVIN**



Kayak Offers New Ways to Explore

Kayak's free iPad app sports not only a new name, but also a new feature that lets you see how far your money can take you. The redubbed Kayak Explore + Flight Search (macworld.com/6137) now includes an Explore feature that lets you see where you can travel based on your budget, the kind of climate you're interested in, and the kinds of activities you want to pursue once you arrive at your destination. Sliders and pop-up menus let you adjust the criteria.—**PHILIP MICHAELS**



Take Firefox with You

Your Firefox activities are never more than a tap away with Firefox Home (macworld.com/6381). The free app from the Mozilla Foundation lets you view and sync bookmarks, open tabs, and your browsing history between your iOS device and the desktop version of the browser. The app uses Firefox Sync to manage the synchronization of data between the app and a user's account. On the desktop, you can get that same functionality via a free plug-in for Firefox 3.5 or higher.—**MARCO TABINI**

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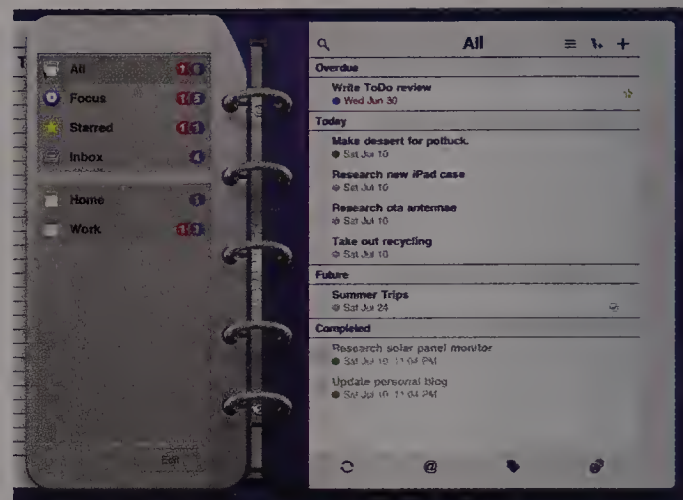
APP GUIDE

Software for Your iPhone, iPod Touch, and iPad

IPAD

Todo for iPad 3.6.4

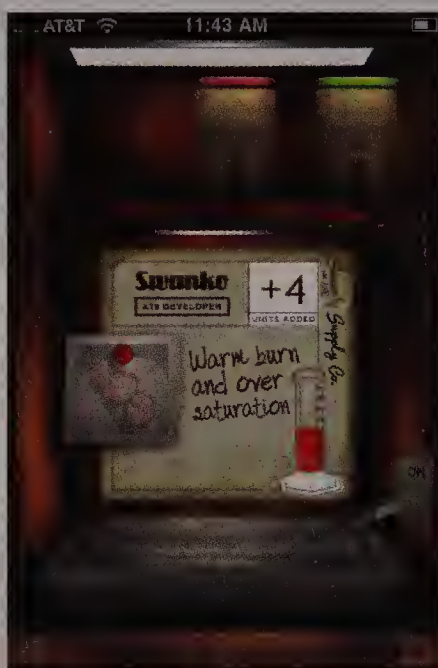
PRODUCTIVITY Much like its iPhone counterpart (★★★★½; macworld.com/3828), the Todo task manager for the iPad comes packed with features that you don't need to mess with if you're not interested, but that you can easily avail yourself of if you're a true power user. You can add multiple tasks consecutively with minimal fuss, if you don't mind creating them without any extra details; or you can tweak an exhaustive number of options for your to-dos. More important, you can view tasks in Todo any way you want to, sorting by due date, by priority, or alphabetically. In short, Todo behaves just the way you want it to.—**LEX FRIEDMAN**
★★★★½; \$5; Appigo; macworld.com/6185



IPHONE/IPAD

PrintBureau 1.5.4

UTILITIES PrintBureau is a hybrid mobile offering containing two apps—one for the iPhone, the other for the iPad—that let you print from either device. Both versions work almost exactly the same way, though only the iPad app can transfer documents via iTunes and print files directly from other apps that support file sharing. While it includes some network file-sharing capabilities, PrintBureau is a printing app at heart—one that should satisfy your needs on whatever device you use.—**JEFF MERRON**
★★★★; \$13; EuroSmartz; macworld.com/6370



IPHONE

SwankoLab 1.0.1

PHOTOGRAPHY If you pine for the days of the darkroom, SwankoLab lets you recreate the experience on your iPhone. The app allows you to “develop” your mobile photos by playing around with virtual chemicals that apply effects to your images. You can mix and match the chemicals at your disposal to create the look you want; existing formulas help you get started. Through in-app purchases, you can add an even wider array of options. It's a lot of fun to see what develops, and you can create some pretty stunning results.—**BEAU COLBURN**
★★★★; \$2; Synthetic; macworld.com/6369

APP GEMS

Top Navigators

Navigon MobileNavigator North America ★★★★ This GPS app now features parking and weather information for your route (macworld.com/5778).

We also like:

AT&T Navigator ★★★★ macworld.com/5773

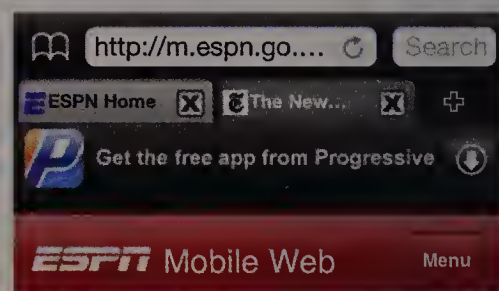
MotionX GPS Drive ★★★★½ macworld.com/5779

Find more great iPhone and iPad navigation apps at macworld.com/6376.

IPHONE/IPAD

Atomic Web Browser 3.0.6

WEB This alternative to the mobile Safari browser probably won't win any beauty contests, but it is packed with powerful features for a fully customizable browsing experience on your iPhone or iPad. Atomic Web Browser lets you set up advanced privacy controls, activate an ad-blocker, customize the search engine bar, and view the source of a Web page. The app also supports tabbed browsing—an incredibly useful feature on the iPad, since you can open links in background tabs.—**JOHN FULLER**
★★★★½; \$1; RichTech; macworld.com/6368



Can't Live Without Him



Clayton: Vikings No Longer Among NFC Elite If Favre Walks Away

REPORTS Favre tells Vikings he plans to retire





IPAD

Urbanspoon for iPad 1.1

REFERENCE Even if you weren't a fan of the iPhone version (👍👍👍; macworld.com/3755) of this restaurant finder, you should give the iPad edition a second look. Urbanspoon for iPad pairs the app's familiar spinning wheel interface for finding eateries with a map that provides some much-needed context by showing you precisely where those eateries are located. A pop-up pane with more information on each restaurant saves you from the interminable tapping back and forth you had to endure with the iPhone version.—**PHILIP MICHAELS** 👍👍👍½; free; Urbanspoon; macworld.com/6371

IPHONE

We Rule 1.13

GAME This real-time simulation game, in which you build a virtual kingdom, has a lot going for it. You grow crops for profit and to rack up experience points—you use the former to buy more land, crops, and structures for your kingdom. That attracts more villagers, which makes your kingdom more interesting. We Rule is free, though the game offers several optional in-app transactions that will cost you real money. Still, its simple concepts and masterful interface make it worth your time.—**BRYAN SCHELL** 👍👍👍½; free; Ngmoco; macworld.com/6372



More Reviews

See more iPhone, iPad, and iPod touch apps we've tested at iPhone Central (macworld.com/4164).

APPLICATION	DESCRIPTION	PRICE	RATING	FIND CODE*
BBC News 1.4.1 BBC Worldwide	iPhone and iPad news	free	👍👍👍½	6375
Fast Contacts 3.4 SpiceLoop	iPhone contact manager	\$2	👍👍👍½	6377
Gorillacam 1.2.1 Joby	mounted camera control app	free	👍👍👍½	5909
Pageonce Bills 1.0 Pageonce	bill manager	free	👍👍👍	6378
TweetList for iPhone 1.6.1 Zoobje	Twitter client	\$3	👍👍👍	6379

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ESSENTIAL APPS

Top Brawlers

Satisfy your thirst for battle with these apps (macworld.com/6374).

Dungeon Hunter 👍👍👍½ As a warrior, rogue, or mage, you'll have all the hack-and-slash run you can handle.

Hero of Sparta 👍👍👍½ Beware of Greeks bearing gifts—unless it happens to be this epic action game.

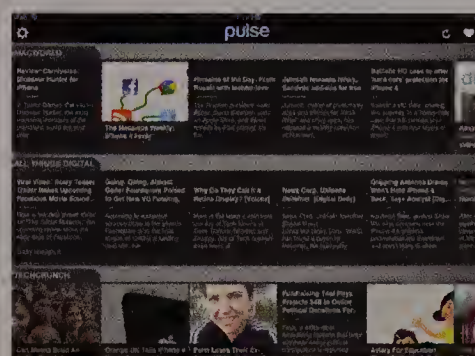
Guerilla Bob 👍👍👍 The only thing better than this third-person shooter's name is its stellar gameplay.

Predators 👍👍👍 Fire up this movie-inspired game and let the chips—and the limbs and splatter—fall where they may.

IPAD

Pulse News Reader 1.1.4

PRODUCTIVITY This iPad RSS reader gives your feeds a magazine-inspired layout. You scroll vertically through a list of your feeds, and horizontally through the posts within each feed—not a very navigable approach for a multitude of feeds, but manageable for a few of your favorites.—**LEX FRIEDMAN** 👍👍👍½; \$4; Alphonso Labs; macworld.com/6373



App Guide

Get more reviews, including reader reviews, as well as listings for every iPhone app at AppGuide.com.



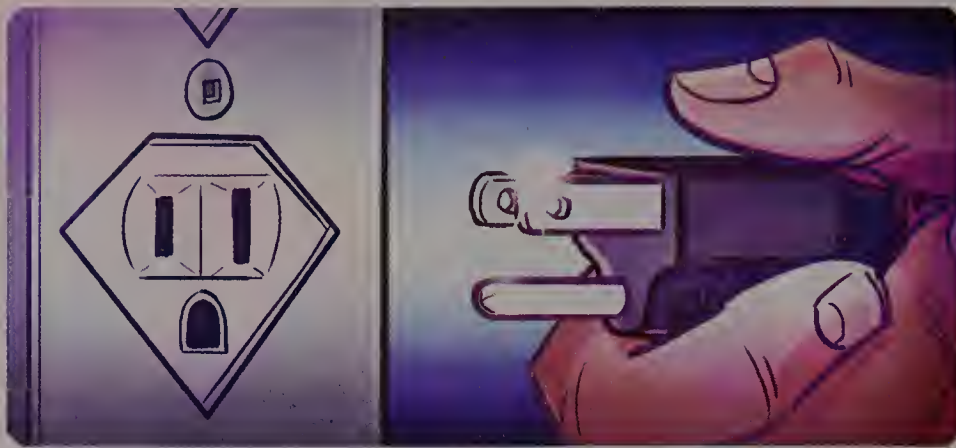
38 PRECIOUS MAC DOWNLOADS

Nowadays, the buzz seems to be all about the iPhone and iPad, and the thousands of apps available for those devices. But we haven't forgotten the Mac, which inspires developers to create thousands of great, affordable programs for the platform. So how can you find the special programs that will make you more productive, help you stay in contact with others, give you a better online experience, and even help you better enjoy your media? Well, we're not called *Macworld* for nothing—we're here to help you find those gems. We've spent countless hours reviewing software to come up with this list of affordable programs you can download right now.

SOFTWARE GEMS THAT
WON'T BREAK THE BANK

ILLUSTRATIONS BY BEN SHANNON





Make the most of your Mac with these valuable (and inexpensive) software tools.

UTILITIES

UTILITIES

atMonitor 2.1.4

Like OS X's Activity Monitor, atMonitor (★★★★) is a powerful utility that allows you to monitor every process running on your Mac. But atMonitor offers much more information about the activity you're seeing. Its tools include a floating window, Dock display, and menu item

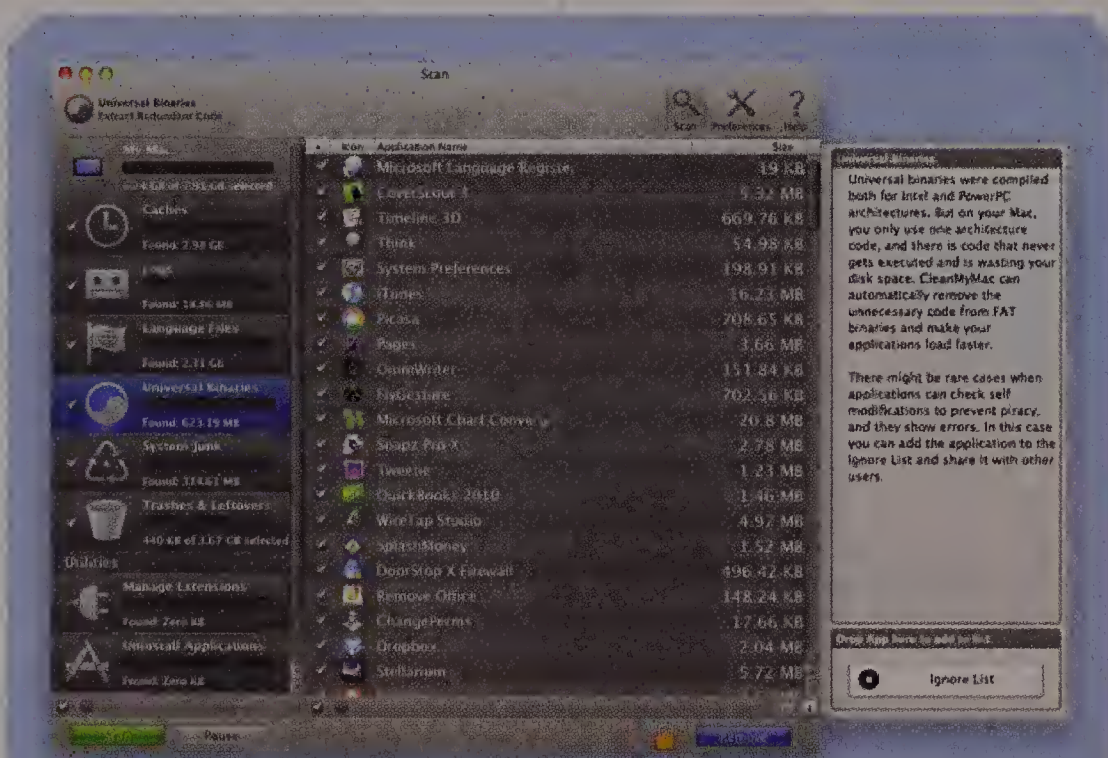
that all display usage information about your CPU, RAM, attached disks, and other system processes. Also, atMonitor can keep a detailed log of every process, providing you with in-depth information. The program provides information about applications you're running, as well, using data from the Website osx.iusethis.com. An excellent replace-

ment for OS X's Apple-supplied Activity Monitor, atMonitor offers detailed application and process information for the curious and IT techs alike (payment requested; atPurpose Technologies, atpurpose.com).—JEFFERY BATTERSBY

PRODUCTIVITY

DataLore 1.02

The stock interface to Spotlight's index of your hard drive is very simple, but not particularly flexible. DataLore (★★★★½) aims to improve the speed and relevance of your search results by enabling you to be very specific about which folders are to be searched and which are to be ignored. And, unlike the rigid Finder, which displays only a file's last-opened date in the search results, DataLore can display the last-opened, last-modified, or creation date. This software's standout feature is its ability to search other Macs on your local network with minimal fuss—DataLore's method is so much faster than Spotlight that you'll wonder why Apple's implementation is so poky (\$20; XtraLean Software, xtralean.com).—STUART GRIPMAN



UTILITIES

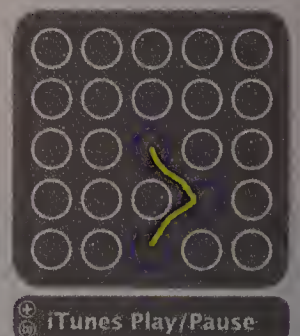
CleanMyMac 1.9.1

Your Mac's hard drive can get pretty cluttered with unnecessary files. CleanMyMac (★★★★½) digs down into the depths of your Mac's hard drive to find extraneous files such as unused language installations, leftover or broken preference files, Universal binaries, and a variety of other files that exist but aren't necessary on your Mac. Once CleanMyMac finds those extra files, it displays detailed information about them so you can choose which files you want removed or left untouched. CleanMyMac is slick, easy to use, and likely to be one of the fastest ways to gain extra space on your hard drive (\$30; Mac Paw, macpaw.com).—JEFFERY BATTERSBY

INPUT

FlyGesture 1.0.2

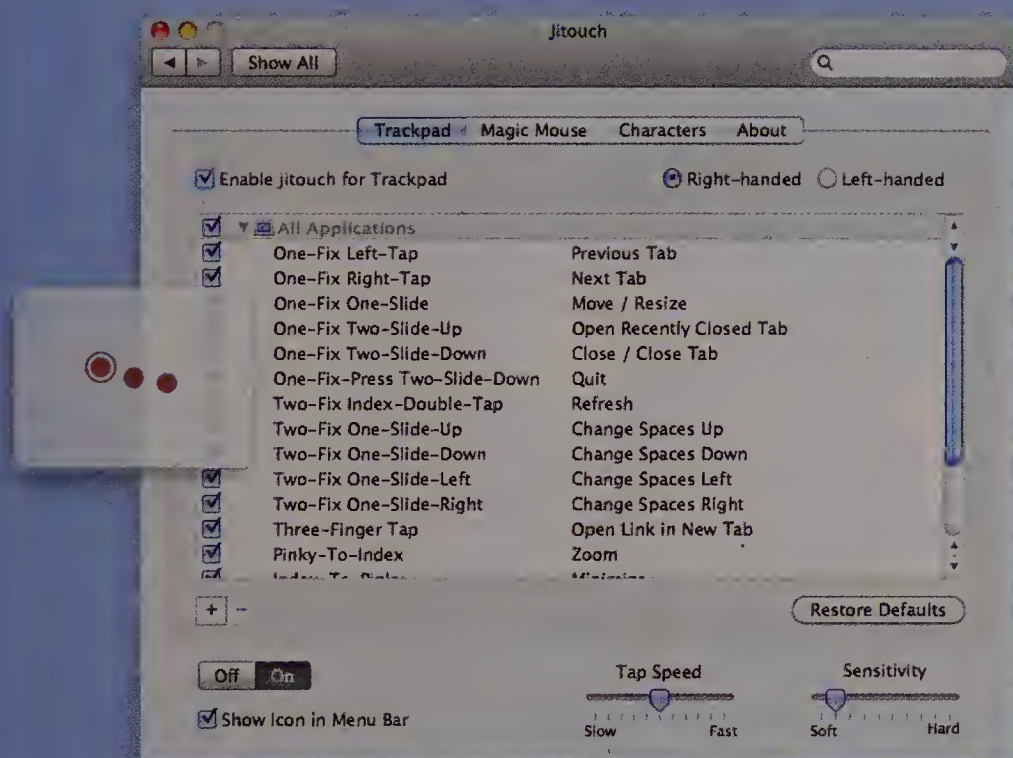
FlyGesture (★★★★½) lets you use your mouse or trackpad to make small gestures that perform a multitude of tasks without your ever having to move your fingers from your MacBook's keyboard or your mouse.



INPUT

Jitouch 2.21

With Jitouch (🔱🔱🔱), you can configure up to 31 different trackpad gestures and 19 different Magic Mouse gestures. Some are simple, such as the three-finger tap, while others, such as the Two-Fix One-Slide-Right, are truly for the gesture addicts. Most gestures have a default action, but you can edit any gesture to perform the specific action you desire. Jitouch's other unique feature is that it lets you assign actions to Character Gestures—simple, finger-drawn characters—that you make on a trackpad or a Magic Mouse (\$6; Jitouch 2, jitouch.com).—DAN FRAKES



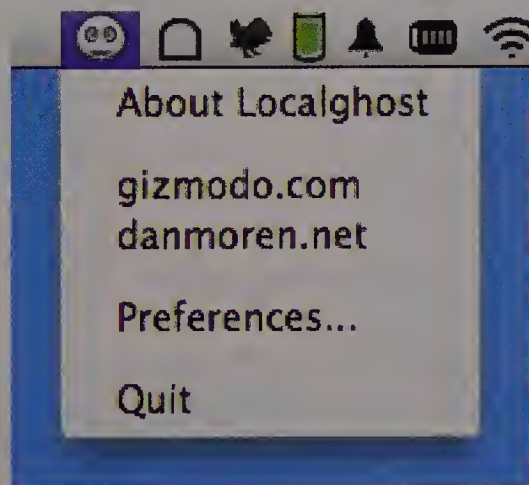
Pressing FlyGesture's default hotkeys (Control-Spacebar) puts a small 5-by-5 grid containing 25 circles right beneath your mouse pointer. Moving your mouse in a specific pattern over these circles and clicking on the last circle kicks off a script that performs a specific task. Although FlyGesture is easy to use, mastering more than a handful of gestures can prove daunting, especially since the program lets you create complex gestures. But as a utility for launching applications or performing repetitive tasks on the fly, FlyGesture is a sure bet (free; Flying Meat, flyingmeat.com).—JEFFERY BATTERSBY

UTILITIES

Localghost 1.0

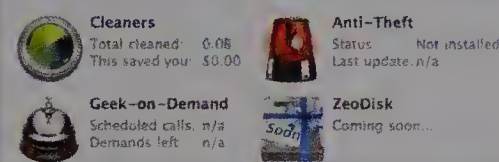
For Web developers, Localghost (🔱🔱🔱½) simplifies the problem of editing a

computer's hosts file to point certain domain names toward the computer itself. Localghost's interface and capabilities are bare bones, but it does just what it says. You can create and maintain a list of domain names in the program's preferences, and then use the menu-bar icon to enable or disable any



number of those domains at will. You can't, however, instruct domain names to point to anything other than the localhost computer, and neither can you point certain domains to certain ports on your computer, though the developer plans to add the latter feature in a future update. In either case, while Localghost is not necessarily a one-stop hosts file editor, it ought to simplify matters for many Web developers (free; Scott Wheeler, scotchi.net/localhost).—DAN MOREN

Status



UTILITIES

MacKeeper 0.9.6

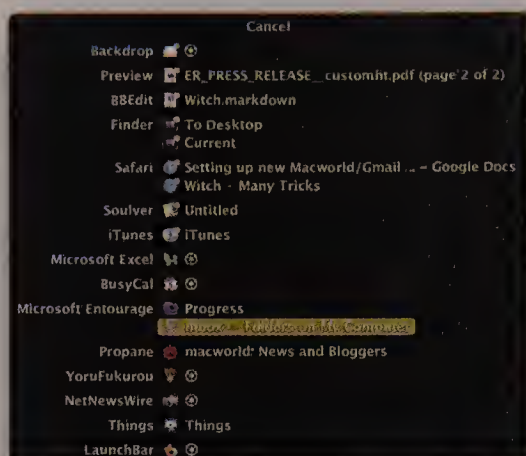
MacKeeper (🔱🔱🔱½) offers tools to clean out errant files, back up your data, and even find your Mac if it's lost or stolen. MacKeeper's features are grouped into three distinct areas: Cleaners, Tools, and Services. Cleaners, as the title implies, help you find and remove unnecessary files. Tools are used to back up and encrypt data, change Launch Services preferences, shed data, and undelete files. Services are where you'll find MacKeeper's Anti-Theft and Geek-on-Demand features. The program comes with built-in chat-based tech support, as well as e-mail and phone support (\$40 per year; MacKeeper, mackeeper.zeobit.com).—JEFFERY BATTERSBY

UTILITIES

Raskin 1.0.1

Named after Jef Raskin, the late user-interface visionary, Raskin (🔱🔱🔱½) is a tool that complements the Finder, simplifying the way you interact with your files. Raskin presents your files in a "flattened" manner that allows you to zoom in and out of your files and folders without opening any windows. Raskin is one large desktop with columns, called Places, that represent frequently used folders on your hard drive. The leftmost place is always your Applications folder. Finding your way

around is like navigating a large map. It requires a great deal of zooming and panning. The product is still a work in progress and could stand some refinement. Even so, if you're a visual thinker, an interface geek, or just can't seem to get the hang of hierarchical file systems, Raskin is well worth a try (\$36; Raskin, raskinformac.com).—**STUART GRIPMAN**



UTILITIES

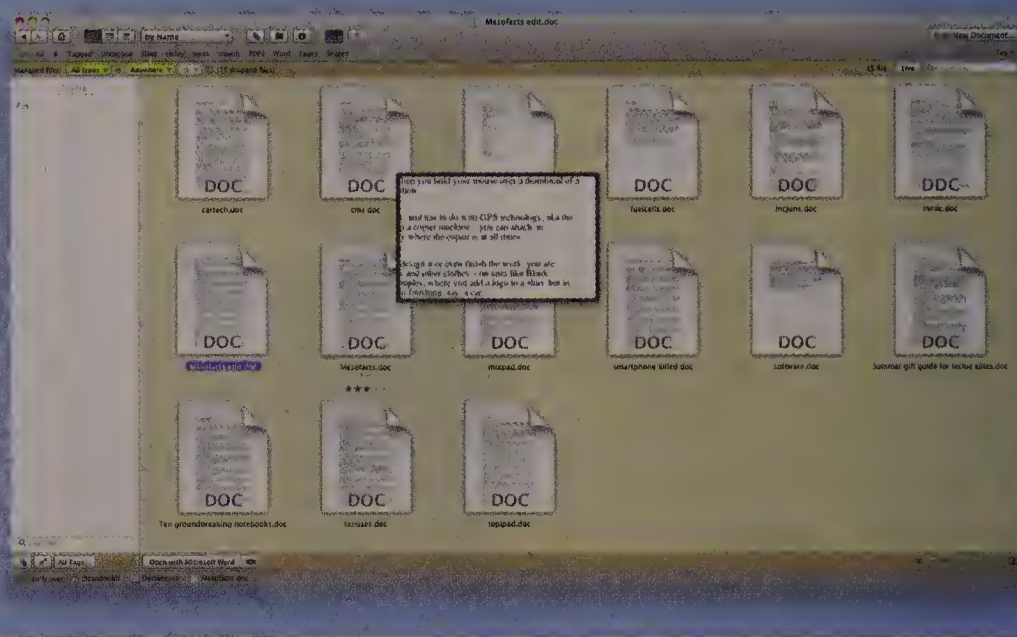
Witch 3.5.2

Witch (★★★★) provides an alternative to Mac OS X's built-in ⌘-Tab application switcher: Instead of restricting you to just switching between open programs, Witch displays a sorted list of all windows—even minimized ones—in all running applications, letting you quickly switch to (and perform actions on) any of them. Witch also offers Quick Look previews of windows, so you can tell exactly what a window contains without having to actually switch to it. If you're running Snow Leopard (OS X

ORGANIZATION

Yep 2.1.0

The document-management equivalent of iTunes, Yep (★★★★) is essentially a document viewer that provides alternatives to the Mac's folder management options. Yep lets you view and tag Microsoft Office, iWork, and PDF files and then later search within Yep itself for only those document types. You can add a star rating to your own docs and then view only the ones you really like or need, based on the rating. Yep shows you all the details for each selected document, and lets you quickly filter the view by location, rating, and doc type. Yep even includes handy default tags, document printing, and a scanning module. A brilliant idea, Yep worked reliably and fast when tested with hundreds of documents of all shapes and sizes. This program really can save you time (\$39; Ironic Software, ironicsoftware.com).—**JOHN BRANDON**



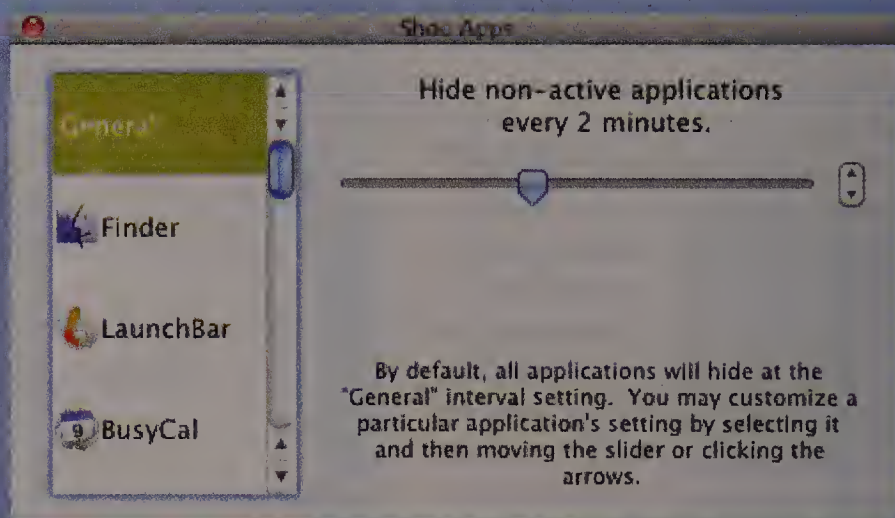
10.6), you'll get support for OS X's Spaces multiple-workspace system—you can specify whether Witch shows just the windows in the current workspace or *all* windows. The number

of available settings and tweaks can seem overwhelming, but Witch is easily one of the most useful Mac utilities out there (\$19; Many Tricks, manytricks.com).—**DAN FRAKES**

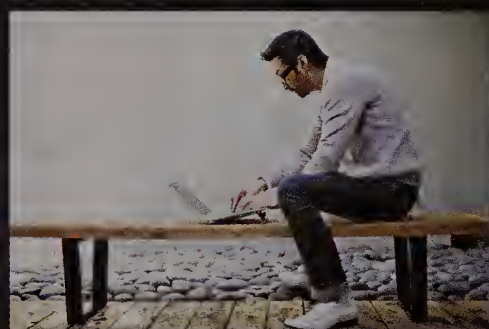
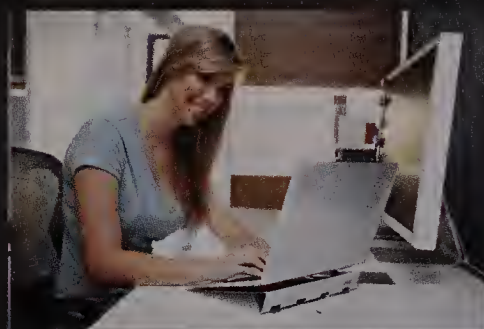
UTILITIES

Shoo Apps 1.1.3

Having trouble focusing on the task at hand? Shoo Apps (★★★★) automatically hides open programs that haven't been used in a while. You choose a general time interval that applies, by default, to all programs. Any program that hasn't been used in this amount of time gets hidden by Mac OS X's standard Hide command. Unfortunately, the longest time setting available is only five minutes, but I was surprised by how much I liked having Shoo Apps automatically hide the many apps I want to keep running but don't need to see all the time (\$15; Pariahware, pariahware.com).—**DAN FRAKES**



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Provides an optimal ergo angle that reduces strain on your wrists.

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Raising the laptop two inches off your work surface allows for better airflow, enabling the laptop to run cooler and more efficiently.

Ultra Thin and Lightweight

Measuring in at 1mm thin when open and 5mm thin when folded, this portable laptop stand weighs a mere 5.5 ounces.

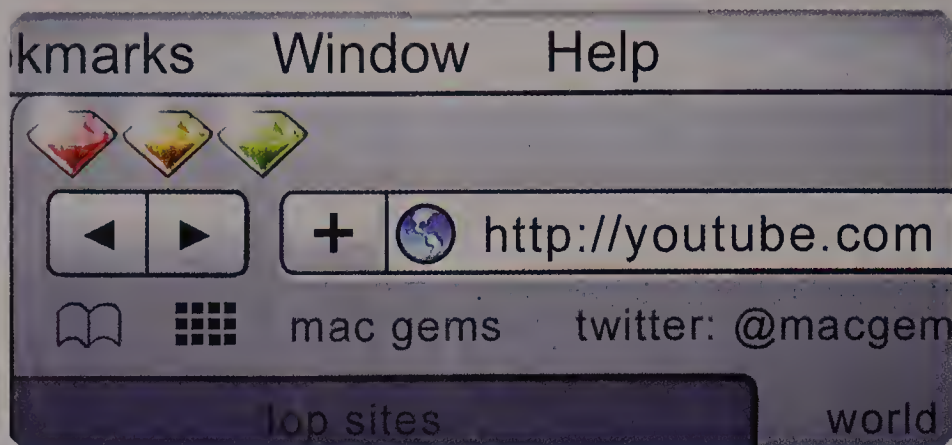
Hylite® Material

This German-made, patented aluminum material provides a flexible lightweight solution that is extremely durable.

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AViiQTM
On the Go.




These software gems make the Internet and Web a little less intimidating.

INTERNET/ WEB




UTILITIES

CloudApp 1.0

CloudApp () is both a Web service and an application with a single goal: to let you share your files with others via shortened URLs (in the form of `http://cl.ly/XX`, where `XX` is a variable). You can upload any type of file, as long as it doesn't exceed 50MB. The software icon resides in your menu bar, and you can invoke the program by dragging and dropping files onto it or pressing a hotkey (free; CloudApp, getcloudapp.com).—DERIK DELONG


WEB

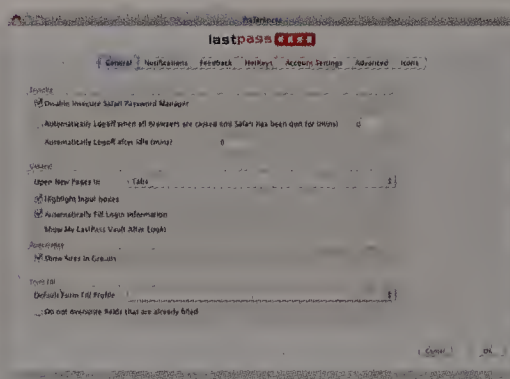
Cruz 0.4

Cruz () is three Web browsers in one: a regular, run-of-the-mill browser sandwiched between two smaller browser windows that show social networking sites. You can browse the Internet and still keep tabs on your Facebook, Twitter, or other social-networking accounts. On my 13-inch MacBook Pro, I found Cruz's three-paned browsing a bit crowded, but Cruz's unique blend of social networking and Web browsing all in one program is intriguing (free; Todd Ditchendorf, cruzapp.com). —JEFFERY BATTERSBY

INTERNET


Droplr 1.1.1

Droplr () is a dead-simple program and Web service for sharing files. This small Mac client appears as a menu-bar icon—you can drop files and photos onto it, or click it to get options like snapping a screenshot or opening a small window for entering text. You can even use a keyboard shortcut to save files to your Droplr account. Files are instantly uploaded to Droplr's Web service, and then a short URL is copied to your clipboard for sharing (free; Droplr, droplr.com).—**DAVID CHARTIER**



WEB

LastPass 1.68.4

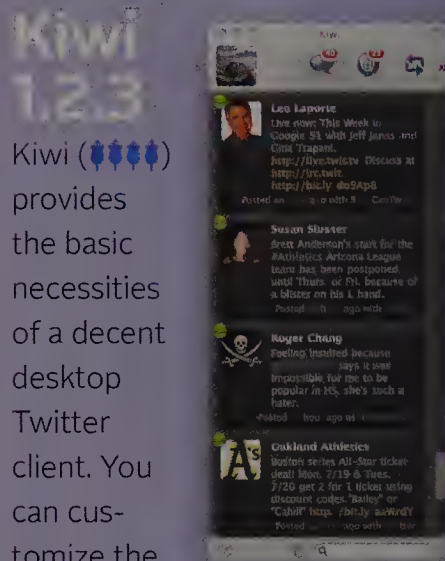
LastPass () manages all your login data, with support for a wide variety of platforms and browsers. You can save your login information when logging in to Websites; the program then offers to fill in those same forms when you return (free; Premium service, \$12 per year; Last Pass, lastpass.com).—DERIK DELONG

INTERNET

Leech 2.0.4

Leech (🐼🐼🐼) uses a plug-in to hook into Safari, Camino, OmniWeb, and Firefox, and then acts as The One Download

SOCIAL NETWORKING



Kiwi ()

provides the basic necessities of a decent desktop Twitter client. You can customize the interface via a growing number of Kiwi themes. You can also use Rules to affect what you see in your Twitter stream. Kiwi is a great option for improving your Twitter experience, whether you run a dozen accounts or you've just outgrown the limitations of using a Web service in a Web browser (\$10; YourHead Software, kiwi-app.net).—DAVID CHARTIER

Manager To Rule Them All. Leech will snag your download and give you better tools to manage all those files you collect. Leech lets you drag in URLs from sources other than your browser, control the number of concurrent downloads, create rules for placing certain files in specific folders, and more (\$14; Many Tricks, manytricks.com).—**DAVID CHARTIER**

NEW

Much more than just an antivirus



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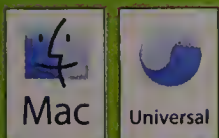
Only **VirusBarrier X6** provides comprehensive protection from malware and network threats. VirusBarrier X6 is the only antivirus program for Mac that includes full anti-malware protection together with two-way firewall, network protection, anti-phishing, anti-spyware features and more. VirusBarrier X6 protects Macs from all known network-based threats, as well as all known malware.

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Intego X6 software is priced lower than X5 versions, and the standard licenses protect up to 2 Macs. Also available: 5-Mac family packs and multi-seat licenses.



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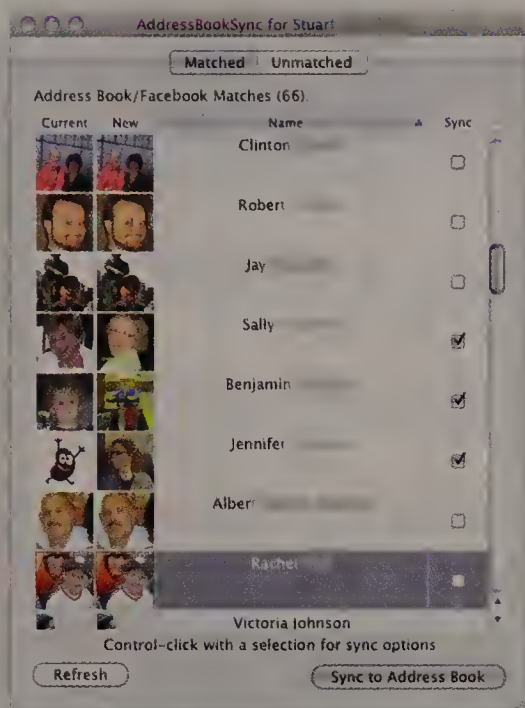
we protect your world





Feeling unorganized? Need to conquer your to-do list? These gems can help.

PRODUCTIVITY



PRODUCTIVITY

AddressBookSync 1.4

AddressBookSync (4 stars) uses a clean interface and simple procedures to help you coordinate the people in your Mac OS X Address Book with your Facebook friends. You can choose which friends to

sync to your Address Book, and you can also choose what Facebook information you want to sync for each of your friends—profile picture, birthday, current location, and profile URL (free; Dan Auclair, danaauclair.com/addressbooksync).

—ABIGAIL GRIPMAN

ORGANIZATION

Compartments 1.2

Compartments (4 stars) aims to make home inventory painless. You can store information about an item's name, type, location, warranty, price, and more. You can also store a product photo. Compartments lets you create smart collections, which, similar to smart folders in Mail and smart playlists in iTunes, are live-updating groups of items based on name, tags, or kind. Compartments' Reports feature produces inventory reports that include a detailed list of all items in each location, along with summaries of the number and total value of items in each

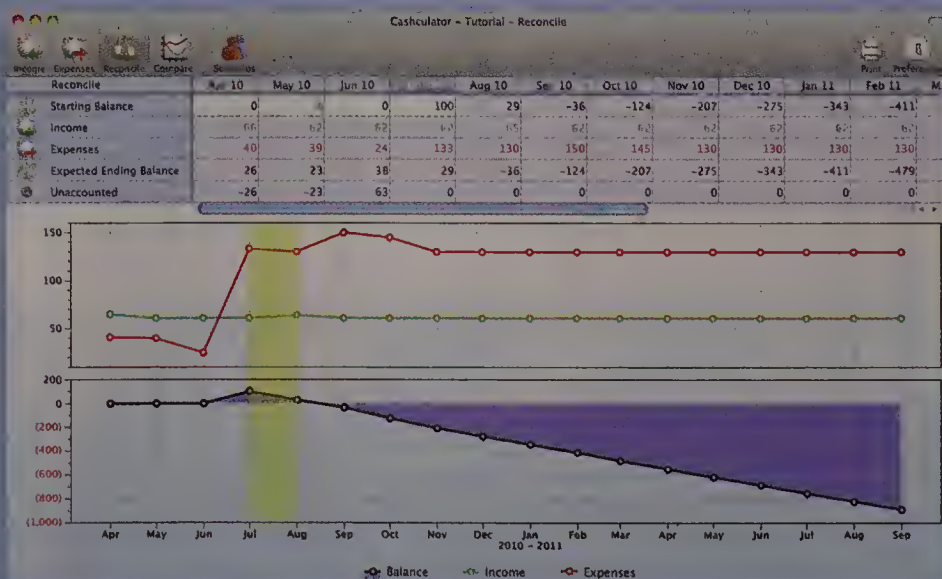


location (\$15; LittleFin Software, littlefin.com).—DAN FRAKES

EDUCATION

Cram 1.3.6

Cram (4 stars) is a study aid that lets you easily create tests and flash cards. When you take a test, you get a summary that includes the date and time; your score; and a list that includes each question, the correct answer, and your result for each question. You can also download pre-made tests from the Cram Test Portal or Quizlet.com (\$30; SimpleLeap Software, simpleleap.com).—DAN FRAKES



LIFESTYLE

Cashculator

Cashculator (4 stars) tries to help you with your personal finances by forecasting the amount of money you'll have in the future. Cashculator considers your income and expenses, and then gives you a tally of your current income with a projection of your future cash balances. Cashculator also lets you create different scenarios so you can see how much money you'll save or spend (\$30; Apparent Software, www.apparentsoft.com).—JEFFERY BATTERSBY



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Create new realities

Bag: Cobra courier XS, iPad messenger (\$145.00), visit booq.com for more details.

Model: Mathew Chaney, AIA/LEED AP/DBIA (Associate, Ehrlich Architects). Photography: Erik Borzi (erikborzi.com)

PRODUCTIVITY

DateLine 0.95

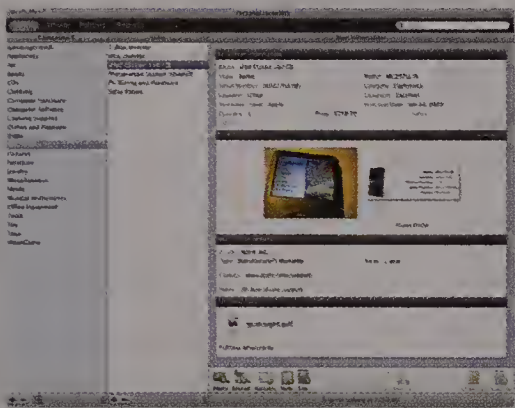
DateLine (🍎🍎🍎¹/₂) is a simple calendar application that displays a linear monthly calendar on your Mac desktop. The program's key feature is the ability to display iCal events and to-dos as you hover your mouse over a specific date. DateLine can work with all your open applications (\$5; Machine-Codex Software, machinecodex.com).

—JEFFERY BATTERSBY

PRODUCTIVITY

Eon 1.2.1

Eon (🍎🍎🍎¹/₂) is an iCal companion application that runs in the background on your Mac. Designed to be available quickly, this event and task manager is accessible either through a Finder menu or a hotkey. Once you call it up, Eon dims your Mac's display to show only calendar and task items. The Eon menu in the Finder gives you an efficient way to manage your schedule and task list. In daily use, Eon is a great ally in the fight to stay on task and adhere to a schedule (\$18; GossTech Products, gosstech.ca).—JOHN BRANDON



ORGANIZATION

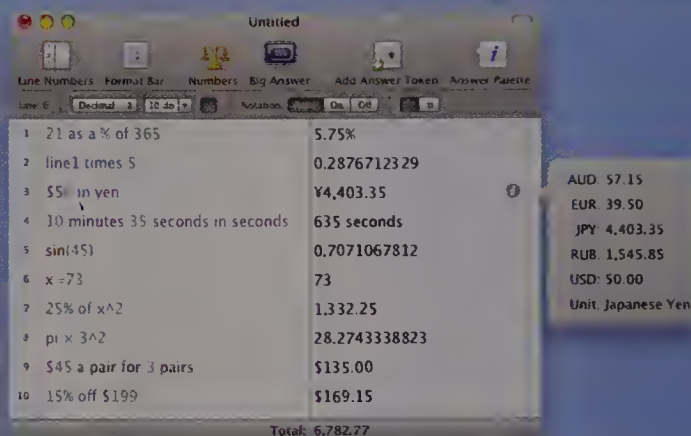
Home Inventory 2.1

Chances are you have a lot of stuff you'd like to replace in the wake of a catastrophe. Home Inventory (🍎🍎🍎) offers a place to list your possessions. Along with the typical bits of information like make, model, and serial number, you can set up custom fields for information relevant to, say, your egg beater collection. Each item in your inventory can have multiple photos attached to its record, useful when you'd like to capture a close-up of

UTILITIES

Soulver 2.0.2

Soulver (🍎🍎🍎) aims to change the way you make mathematical calculations. Although you can type traditional mathematical equations into



Soulver's list-like interface, the program is unique in letting you also use something approaching normal language. For example, if you're trying to figure out the price of a \$199 product at a 15 percent discount, you can just type **15% off \$199**. To convert currency, you can type **\$50 in Yen**. To convert time, type **5 minutes 18 seconds in seconds**. A Total display shows the sum of all the current window's answers—handy if you want to total up your daily expenditures (\$25; Acqualia Software, acqualia.com).—DAN FRANKS

the serial number or thoroughly document your cookie jars. Date-stamped notes, receipts, files (such as a PDF user manual), and warranty information can also be kept with each item in your list. The Policies section of Home Inventory is for documenting insurance coverage (\$35; Binary Formations, binaryformations.com).

—STUART GRIPMAN

PRODUCTIVITY

PreMinder 1.0.6

Although PreMinder (🍎🍎🍎¹/₂) seems like just another calendar program, it has some nice customization features. Not only can you customize the way you'd like to view your calendar (from daily, to fortnightly, to even a month and a half-ly), but you can also use a simple toolbar to specify different fonts, colors, and styles for the events you type in. You can even add pictures to your events. PreMinder can also import events from iCal and birthdays from your Address Book. And because PreMinder works with the Growl alert software, remembering an event is effortless thanks to the many options PreMinder can enable (£20; HairyHighlandCow, hairyhighlandcow.net).—LYNN LA

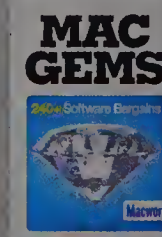
PRODUCTIVITY

Vitamin-R 1.17

Vitamin-R (🍎🍎🍎¹/₂) helps you get things done by removing distractions and shrinking your tasks into small, manageable time slices. You define what you want to do with a specific slice of time, and then set up the time period in which you want to perform the task. You also have the option of removing potential distractions by closing applications during that designated time period. You can then get down to work. Vitamin-R's menu item displays a small timer at several intervals throughout the process; when the time runs out, you have the option of rating your focus for the completed session (\$19; Publicspace.net, publicspace.net).—JEFFERY BATTERSBY

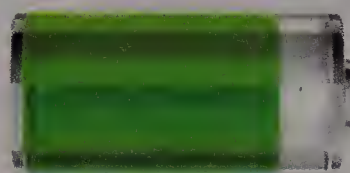
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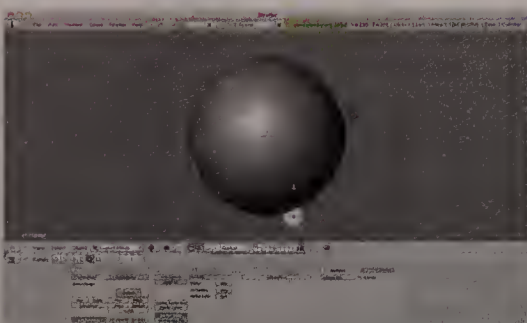


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CREATIVE



GRAPHICS

Blender 2.49b

Blender (★★★★½) is a modeling and animation program with support for Python scripts, rigging, shading, and compositing. It has an animation engine and even an engine for creating scientific particles that you can render into a complex geometric shape (free; Blender Foundation, blender.org).—JOHN BRANDON

GRAPHICS

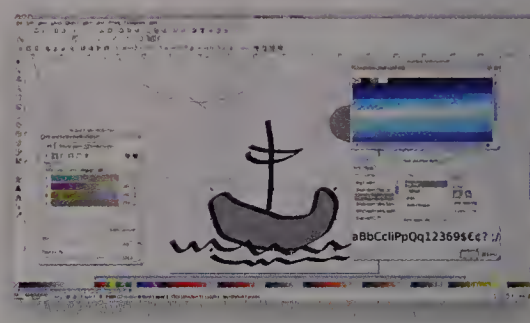
DrawBerry

Although DrawBerry (★★★★) is not exactly a substitute for Adobe Illustrator, it works well in a pinch. The basic tools are all here; DrawBerry does a great job of putting most tools on palettes for easy access, instead of burying them in the menus. And you can export a finished drawing as a PDF or an EPS, or in a photo format like JPEG (payment requested; Raphael Bost, raphaelbost.free.fr).—JOHN BRANDON

GRAPHICS

Inkscape 0.47

Inkscape (★★★★) is a drawing application that uses X11, a way to run Linux apps on the Mac. You can add a plethora of boxes



and multisided shapes, 3D boxes, freehand drawings, and intricate swirls. Inkscape provides advanced options for editing specific points on a geometric shape and tweaking your illustration down to the exact vector coordinates (payment requested; Inkscape, inkscape.org).—JOHN BRANDON

PHOTOGRAPHY

shootShifter 2.5.1

Get help renaming and adjusting the dates of photos with shootShifter (★★★★). After you load multiple folders into the program, shootShifter shows you a timeline for all images. You can quickly adjust photos with the wrong timestamp by dragging the images into the correct sequence in the timeline (free; Jan-Sebastian Schliemann, maccentrisch.de).—JOHN BRANDON

PHOTOGRAPHY

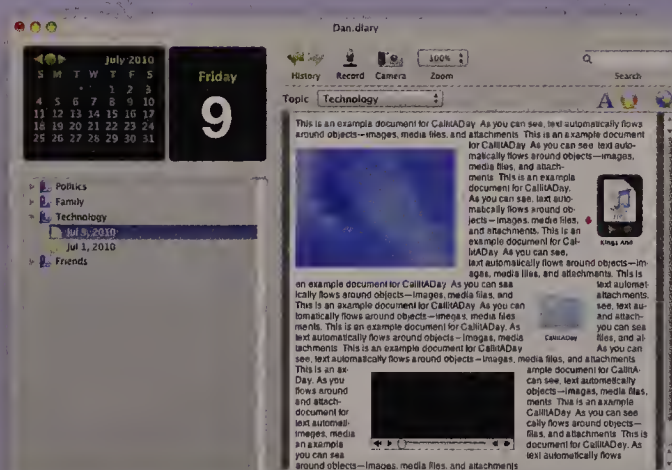
Viewfinder 1.0.6

Viewfinder (★★★★) is an indispensable tool for searching Flickr because it lets you not only see the results in an easy-to-browse window, but also then download the images. For photographers looking for stock images, Viewfinder is rather amazing. It's a snap to find that one picture you really need for a brochure (£18; Connected Flow, connectedflow.com).—JOHN BRANDON

CREATIVE

CallitADay 2.2

CallitADay (★★★★) is a program for keeping a daily journal, but one that's flexible enough to let you store other content, and even publish some of that content to the Web. When typing a note, you get the standard text-formatting options, but notes can contain more than just text. You can drag an image or a video into any note, as well as attachments and audio files. CallitADay also includes features for recording audio and, if you have an iSight or other USB camera connected, for taking photos. If you maintain a WordPress blog, you can publish a note to your blog as a blog entry simply by clicking CallitADay's Publish button (\$14; Expertsis, expertsis.com).—DAN FRAKES





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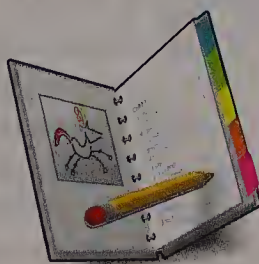


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TEKSERVE



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AUDIO/ VIDEO

years ago our fathers brought forth on this continent, a new nation, conceived in Liberty, and dedicated to the proposition that all men are created equal.

Now we are engaged in a

VIDEO

AquaPrompt 1.2.2

Professional speakers often use a teleprompter to display their prepared remarks, but a professional teleprompting system can be quite expensive. AquaPrompt (🔵🔵🔵) brings many of the same features to your Mac's screen for a relatively paltry price. You just type or paste your content into the AquaPrompt window and click the Prompt button. Then, using the mouse cursor or the arrow keys, you choose your text size and scroll rate—you can adjust the rate, pause scrolling, or even scroll backward at any time, and on-screen buttons let you quickly jump to the top or bottom of your content (\$15; NovaStorm Software, novastormsoftware.com).—**DAN FRAKES**

MUSIC

Everplay 1.1.1

Snarbssoft bills Everplay (🔵🔵🔵) as a smaller, more efficient, and more social media player than iTunes. Everplay's interface strips out a lot of the window and toolbar cruft, leaving just a few controls wrapped around a Cover Flow album panel. But instead of asking you to create a whole new library and start all

over with arranging media or creating playlists, Everplay simply draws from your existing iTunes music, podcasts, movies, and playlists (\$20; Snarbssoft, snarbssoft.com).—**DAVID CHARTIER**

VIDEO

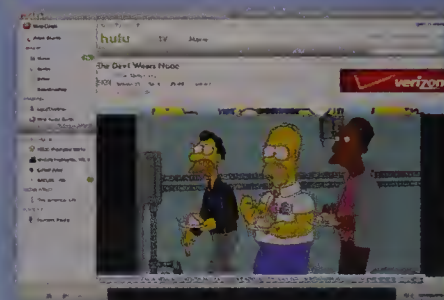
GuestReel 1.1

Ideal for weddings, get-togethers, or just about any other excuse for a party, GuestReel (🔵🔵🔵½) runs in kiosk mode on your Mac so that anyone at the party or event can walk up and record a video greeting with the help of either your Mac's built-in iSight camera or a video camera connected over FireWire. Finished messages can be exported as an iMovie project (for generating a QuickTime movie) or directly into iDVD to make a DVD. The interface for GuestReel is a little bit clunky—the kiosk screen lacks a certain flair—but it's just functional enough (\$39; GuestReel, guestreel.com).—**JOHN BRANDON**

iTUNES

SizzlingKeys 4.0.1

SizzlingKeys (🔵🔵🔵) is a pane in System Preferences that lets you control a number of iTunes functions from your keyboard, including launching iTunes, changing songs, displaying the current song (including cover art), and more. You can customize those shortcuts to any keys that you choose, since some of the default settings may conflict with other programs you use. If you're an iTunes regular, SizzlingKeys goes a long way toward keeping your favorite tunes playing while your fingers go to work (\$5; Yellow Mug Software, yellowmug.com).—**JEFFERY BATTERSBY**



VIDEO

Miro 3.0.3

Miro (🔵🔵🔵½) is a free HD video and media player that helps you aggregate and download a variety of Web-based content. The software features the Miro Guide, where you can select video and audio podcasts to subscribe to, or use the search bar to hunt down the programs that you want to watch or listen to. While impressive, Miro can sometimes behave oddly. For example, if you find a TV episode on Hulu you want to watch, Miro displays the show in its own browser, so many of Hulu's features don't work (free; Participatory Culture Foundation, getmiro.com).

—**JEFFERY BATTERSBY**

Jeffery Battersby, John Brandon, Derik DeLong, Abigail Gripman, and Stuart Gripman are freelance contributors to *Macworld*. **David Chartier, Dan Frakes, Lynn La, and Dan Moren** are *Macworld* editors.

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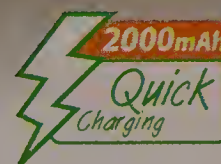
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10 HRS VIDEO/GAME /

40 HRS MUSIC



DCA223



Chargeable
from the sun





PULLING THE STRINGS

5 WAYS YOU CAN CONTROL YOUR MAC FROM AFAR

Two-thirds of Mac-owning households in the United States have more than one computer. Of those, nearly three-quarters have both laptops and desktops. A large number of them also own iPhones, iPads, or iPod touches.

Put those numbers together, and you have a lot of us who'd like to connect from one Mac (or iOS device) to another—whether that other computer is down the hall or across the country.

We need more than access to remote files. We also need *control* over the distant machine—to see what's on its screen and to run its programs.

Fortunately, there are many ways to remotely access a Mac. They fall roughly into five categories:

1. tools built into OS X itself, including Screen Sharing and Back to My Mac,
2. chat services such as iChat and Skype,
3. dedicated online services, including LogMeIn and GoToMyPC,

4. the dedicated remote control program Timbuktu Pro, and

5. tools based on the generic, cross-platform VNC (Virtual Network Computing).

(Remote Login using SSH isn't in that list because it's a pretty specialized tool; chances are, if you need to connect that way, you already know it—and know how to do so.)

Why It's Hard

Remotely controlling one Mac from another within the same local network isn't hard; Bonjour and other networking tools make it reasonably simple. Controlling a machine on a remote network is trickier because much of the networking hardware and software that lies between you and the other machine is there specifically to prevent that kind of access.

One of the biggest barriers to remote access is that to control any remote machine, you need to know its network address. But home networks typically deploy two technolo-

BY GLENN FLEISHMAN

ILLUSTRATIONS BY HARRY CAMPBELL

gies—Network Address Translation (NAT) and Dynamic Host Configuration Protocol (DHCP)—that hide those addresses from view.

Some remote-access tools (including Back to My Mac, GoToMyPC, and LogMeIn) take care of this problem by talking directly to a router's NAT software, in order to establish specific paths into the network.

Other solutions (including OS X's built-in Screen Sharing software and VNC) require that you set up port mapping—establishing persistent connections between ports on the router's Internet-facing IP address and specific computers inside the network.

If you're lucky, NAT Port Mapping Protocol (NAT-PMP, favored by Apple) or Universal Plug and Play (UPnP, common on non-Apple hardware) on your router can take care of the port mapping for you. Third-party software such as Port Map (🔗🔗🔗🔗; macworld.com/6438) or Lighthouse (codelaide.com) can also do the trick. You can map ports manually, but you have to know which ports are used for which services, how to assign persistent addresses, and how to find your external public IP address.

One other solution to the “Where is my computer?” problem: Dynamic DNS, which lets you map a human-readable domain name, such as remote.mymachine.com to your router's public IP address. For more on how to do that, see “Setting Up Dynamic DNS” (macworld.com/6439).

The Right Route

To figure out which remote-access alternative is right for you, you need to consider a few different features:

Security All of the aforementioned options except for VNC strongly encrypt remote-access connections by default. If you opt for VNC, you need to take extra precautions.

Cost The most reliable options cost the most. LogMeIn and GoToMyPC have hefty, recurring, per-machine subscription fees; Timbuktu Pro has a high, one-time per-computer price tag. Back to My Mac is less expensive (the cost of a MobileMe subscription), but it doesn't work for everyone.

Multiple Monitors If the remote machine is connected to more than one display, can your remote control program show you all those screens?

File Sharing Surprisingly, many remote control programs offer no good way to move files from one computer to the other.

To help you decide which remote control option meets your needs, let me walk you through each one—its pros and cons, and the ease (or difficulty) of setting it up.

BUILT-IN TOOLS

SCREEN SHARING AND BACK TO MY MAC COME WITH OS X, BUT THEY AREN'T ALWAYS ENOUGH

Two of the simplest ways to access another Mac are built into OS X: Screen Sharing and Back to My Mac. OS X 10.5 (Leopard) and 10.6 (Snow Leopard) both come with the robust Screen Sharing program. It lets you access other 10.5 and 10.6 systems, and it's compatible with the industry-standard VNC protocol. However, unless you're comfortable fiddling

with port settings on your router, Screen Sharing alone isn't very good at reaching out over the Internet; it's best for connecting to computers that are hooked up to the same router.

But when paired with Back to My Mac, Screen Sharing becomes much more powerful—as long as you have a MobileMe account, and each computer you want to use is logged into it.

Screen Sharing manages multiple monitors relatively well. It's also relatively speedy and easy to set up.

If you enable File Sharing on the remote system, you can transfer files over the same connection.

The biggest disadvantage of OS X's built-in tools is the price of the MobileMe subscription. Back to My Mac can also be picky about the routers that it will work with.

Setup

Assuming that you have a MobileMe account, you enable Back to My Mac in the MobileMe preference pane. On the pane's Back to My Mac tab, click Start to activate the service; a green dot appears when it has successfully registered your computer with the MobileMe servers. You also need to turn on Screen Sharing (in the Sharing preference pane) on the systems you want to access remotely.

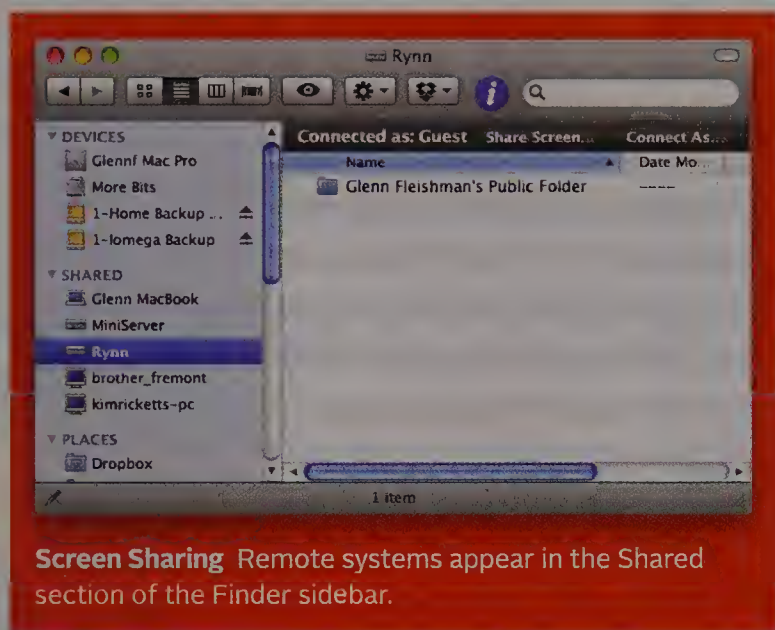


SUMMARY BUILT-IN TOOLS

PROS Nothing to install; works in both OS X 10.5 and 10.6; good support for multiple monitors; speedy; simple.

CONS Simple long-distance connections require MobileMe; no built-in file transfer.

BOTTOM LINE Works well for local sessions; but remote Internet connections can be trickier and may depend on ISP.



Screen Sharing Remote systems appear in the Shared section of the Finder sidebar.

Once active, any remote computers registered to the same MobileMe account should appear in the Shared section of the Finder sidebar.

To access one of those computers, select it from the sidebar list and then click the Share Screen button. When you do that, the Screen Sharing program will attempt to connect. If the remote system has the same OS X username and password as the computer from which you're connecting, you may not be prompted to log in. Otherwise, you will be. (Store your username and password in the Keychain for future connections.)

Once the connection is made, you can scale the screen (to fit the open sharing window), adjust the screen quality (to reduce the bandwidth required), and choose to see one or all of the remote monitors.

If Back to My Mac isn't working for you, open its tab in the MobileMe preference pane. If you see a green dot for connection status, click Stop, wait a moment, and then click Start. This often clears up problems. (Clicking Stop will disconnect from any remote machines volumes that are using Back to My Mac.) If you see a yellow or red dot, check out "Troubleshooting Back to My Mac" (macworld.com/6440).

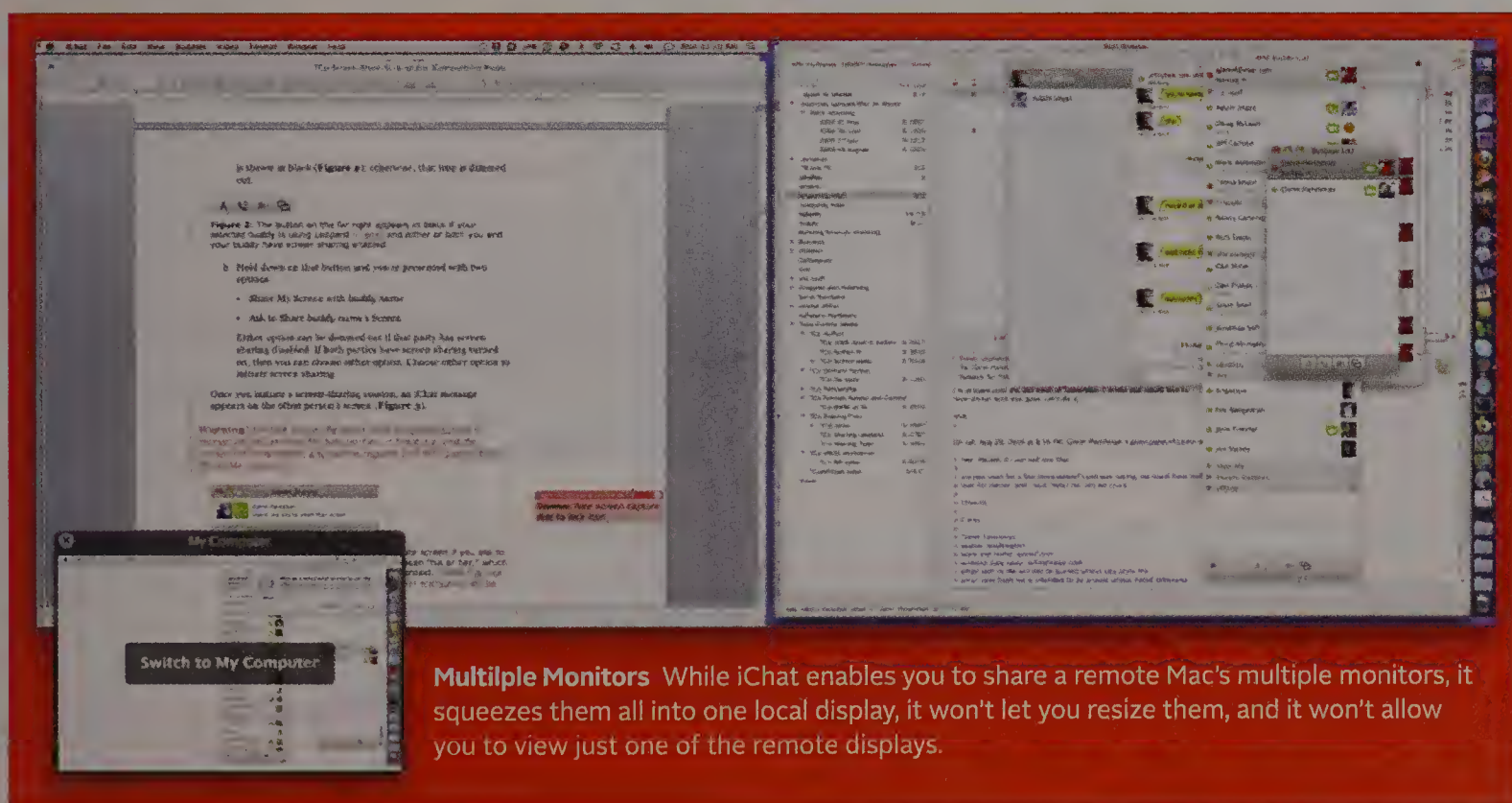
CHAT SERVICES

iCHAT WORKS BEST FOR SCREEN SHARING IF ANOTHER HUMAN BEING IS AT THE OTHER MAC

If Back to My Mac doesn't work for you, you have another simple alternative for remotely accessing a Mac: iChat. The only catch: Someone else needs to be sitting at the other machine.

How They Compare

The big advantage of iChat is that it'll let you share the screens of any two Macs as long as both are running Mac OS X 10.5 or 10.6. It relies on the same underlying screen-sharing technology as Back to My Mac, but it gives you less control. Among iChat's other disadvantages: You can't share or view a screen if either party is using a



Multiple Monitors While iChat enables you to share a remote Mac's multiple monitors, it squeezes them all into one local display, it won't let you resize them, and it won't allow you to view just one of the remote displays.

version of OS X earlier than 10.5; it doesn't handle multiple monitors well (it shows them all on a single, local display, even if you have multiple displays yourself); you can't copy and paste between machines; and it may not work unless both ends have publicly reachable addresses.

Skype (www.skype.com) also supports buddy-to-buddy screen sharing. It's compatible with non-Mac platforms, and it lets you select all or part of a screen to share. However, you can only *view* other screens; you can't control them. (For that, you need Timbuktu Pro.)

Setup

To share screens via iChat in Leopard or Snow Leopard, log in to iChat. If you want to share your screen with someone else, make sure Video ► Screen Sharing Enabled is checked; if you want to view someone else's screen, they must select that option at their end.

Setting up screen sharing through iChat also requires that certain ports be open on the sharing end of the connection. So at least one of the parties must have an Apple router with NAT-PMP enabled or another company's router with UPnP turned on, as well as a publicly reachable IP address.

Assuming that you sort out the router, you can connect to a Bonjour, AIM, or Jabber buddy in three ways: Control-click the person's name and select Share My Screen With *BuddyName* or Ask To Share *BuddyName's* Screen; select a name in your buddy list and click the Screen Sharing icon at the bottom of the iChat window; or select a buddy and choose the Screen Sharing option from the Buddies menu.

To initiate a chat with someone not on your buddy list, select File ► New Chat (or press ⌘-N), choose Share My Screen or Share Buddy's Screen from the Type menu, and then enter the other person's screen name. (Mac OS X will warn the other person that someone who isn't on his or her list is trying to initiate a session.)

If no one is at the other Mac, you can set up iChat to automatically accept incoming screen-sharing requests from anyone or from a defined set of users with the help of the popular add-on Chax (www.ksuther.com/chax).

SUMMARY iCHAT

PROS Works with anyone who is reachable by iChat.

CONS Handles multiple monitors poorly; no ability to copy and paste between machines; can often require a publicly reachable IP address.

BOTTOM LINE Great for troubleshooting other Macs, but usually requires a human being at the other end.

WEB SERVICES

THESE MOST RELIABLE AND VERSATILE
OPTIONS CAN ALSO BE THE MOST EXPENSIVE

If messing around with routers is too much bother, you might consider a dedicated remote-access service such as LogMeIn (secure.logmein.com) or GoToMyPC (www.gotomypc.com). Both sidestep router configurations, firewalls, and other obstacles by connecting remote machines through central servers. If both computers can connect to those servers, they can connect to each other.

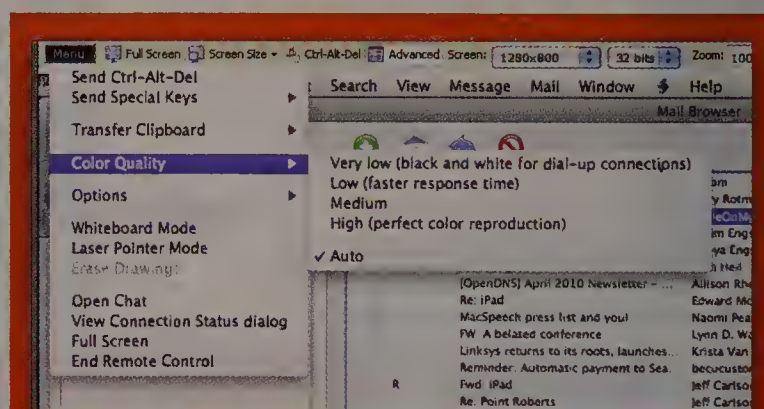


How They Compare

LogMeIn comes in two flavors: Free and Pro. Both have good support for multiple monitors, and both can work on Macs or Windows machines. And both are limited by the fact that the viewer is embedded in a browser window. The Free service's biggest limitation is that it offers no integrated file sharing or remote-to-local printing.

LogMeIn Pro does support remote file sharing and printing; it also has a guest mode, which lets you invite another party to view your desktop even if they don't have access to your account. It costs \$70 per year per computer, with volume discounts. You pay only for the machines that you set up to be remotely accessible; you can use any number of computers to access them. LogMeIn also has an iPhone app—LogMeIn Ignition (📱📱📱; \$30; macworld.com/5646)—that works with both the Free and the Pro service.

Citrix Online's GoToMyPC costs more than LogMeIn Pro—\$180 per year, with discounts for accommodating



LogMeIn Options You can control bandwidth usage and other settings in the LogMeIn browser plug-in.

PLANTS VS. ZOMBIES HD

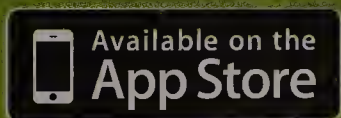


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SUMMARY
WEB SERVICES**LOGMEIN FREE**

PROS No cost; accessible via any Web browser; handles multiple monitors well; has iPhone app.

CONS No integrated file sharing; browser-based viewer offers limited control.

LOGMEIN PRO

PROS File sharing; accessible via any Web browser; remote printing; guest sharing; iPhone app.

CONS Browser-based viewer offers limited control.

CITRIX ONLINE
GOTOMYPC FOR MAC

PROS Compatible with Windows versions of GoToMyPC.

CONS Poor interface, with limited controls; omits advanced features found in similarly priced Windows version.

BOTTOM LINE The LogMeIn Pro and Free versions might not provide every bell and whistle, but they both make remote connections simple.

more computers. As with LogMeIn, the per-computer price is only for machines that are set up to be remotely accessible. You can use any number of computers to access the computers that have the Citrix software installed.

However, GoToMyPC doesn't do as much as LogMeIn Pro. The Java viewer applet provides few controls, shows all remote monitors in a single shrunken display, and requires that you drag a slider to increase the remote display to full size. GoToMyPC supports remote viewing and clipboard sharing for copy and paste, but not remote printing, guest access, or file sharing.

Of the three options, LogMeIn Pro is the clear winner, unless your company or office has standardized on GoToMyPC and has a multiuser license. If you don't require much control over the connection or need remote services like printing, LogMeIn Free does a fine job.

Setup

For both versions of LogMeIn, you first set up an account at the LogMeIn Website and then download and install the LogMeIn software on the computers to which you want remote access. That done, you can log in to that Mac (or Windows PC) from any Web browser. But beware: Because the LogMeIn interface to the remote machine works inside your browser, keyboard shortcuts can get confusing.

Many times I've quit Firefox after pressing ⌘-Q, rather than quitting the remote program as I had intended.

GoToMyPC's setup is similar to LogMeIn's: From the Mac (or PC) that you want to remotely access, you go to the GoToMyPC Website, fill in the account information, and then click on an install button. Doing so launches the installer applet. When the installer finishes its work, you should be able to log in to that Mac (or PC) from anywhere.

TIMBUKTU

PRO

DEDICATED REMOTE-ACCESS PROGRAM OFFERS ALMOST UNLIMITED TOOLS—FOR A PRICE

Netopia's Timbuktu Pro is great if you need something more sophisticated than Back to My Mac or iChat, but don't want to rely on a central server for the connection.

The software—which seems to have been around forever, in one form or another (I first used it in the early nineties on a Macintosh Portable)—provides more options for remote interaction than any of the other alternatives. You can remotely access both attended and unattended machines, share your Mac with guests, transfer files, both control and observe remote screens, talk via VoIP, and chat.

The program can connect over a local network (via Bonjour or an IP address) or remotely (via an IP address or an Internet hostname).

Unfortunately, Timbuktu on its own can't connect to computers on a remote network that have been assigned private addresses by a router. A few years ago, Netopia found a way around that obstacle, by enabling Skype integration with Timbuktu Pro. Skype's software acts as a conduit for connecting to different networks.

To take advantage of this integration, you must create multiple Skype accounts and leave those accounts logged in on the remote machines. You can then use all of Timbuktu's security and other features; Skype is just the pipe.

The biggest downside to Timbuktu Pro is its price: It's sold as a set of licenses; you need two licenses to connect two machines. (Each license allows both client and server operation, at the same time.) Those licenses start at \$180 (Mac only) or \$200 (Mac/Windows mix) for two machines; discounts are available if you have more machines.

Setup

As noted, you need a copy of Timbuktu Pro on every machine you want access to and from. You can choose which services to

SUMMARY
TIMBUKTU PRO

PROS Enormous number of options; integrated file transfer; multiple-monitor support; can install itself remotely via SSH.

CONS High per-seat expense; requires Skype for general access outside a local network; awkward interface.

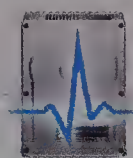
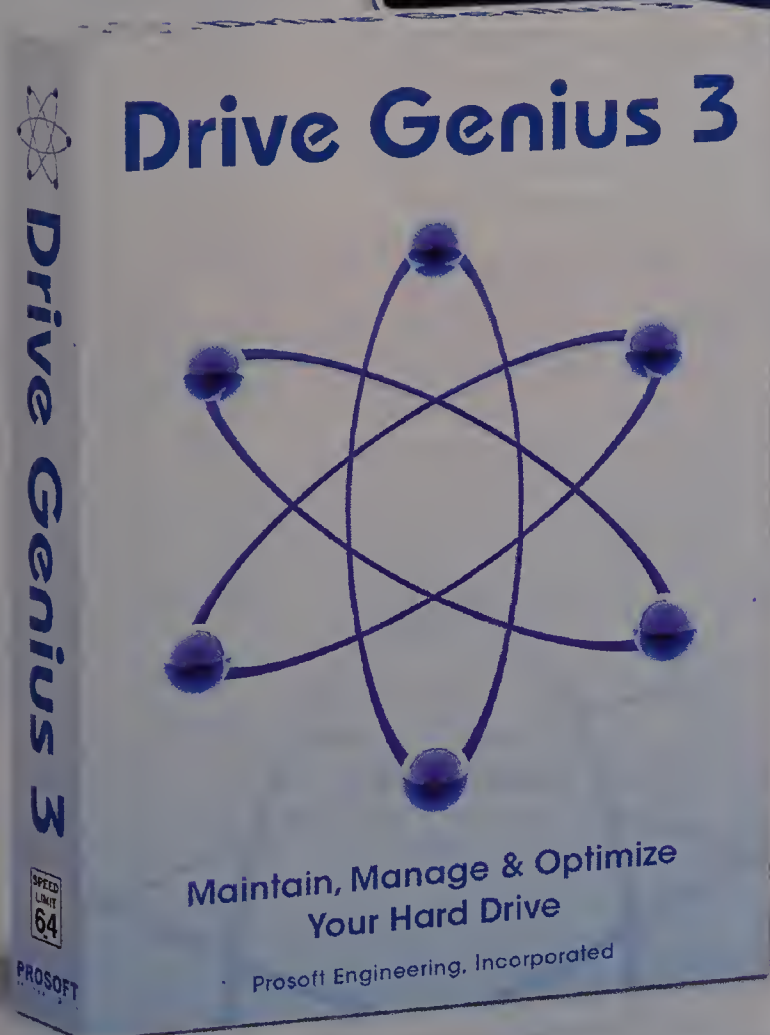
BOTTOM LINE Great (if pricey) choice if you need full control but don't want to manually configure your remote connection.

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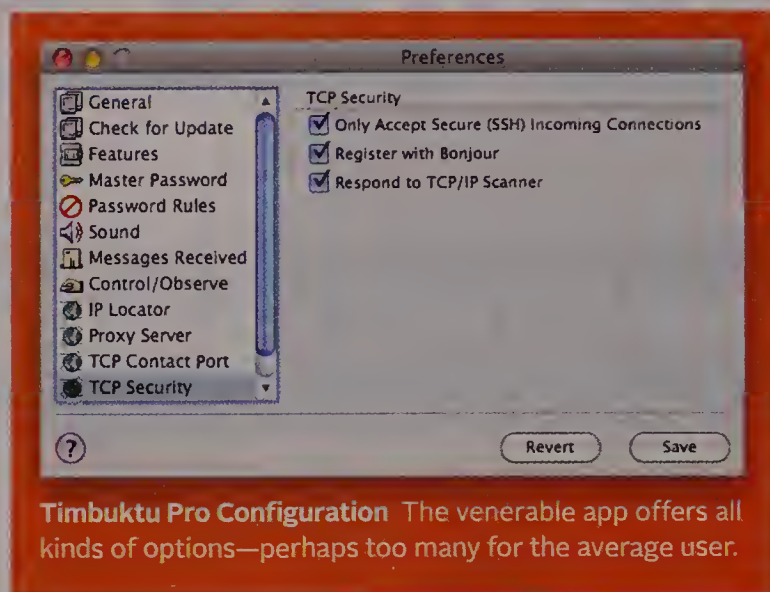


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enable, turning off everything but, say, remote observation, in which a user can see the screen but not use the keyboard or mouse. You should enable the following option: In Setup ► Preferences ► TCP Security, select Only Accept Secure (SSH) Incoming Connections.

Setting up Skype can be a little tricky. If you're trying to access someone else's system, both of you must have Skype active and must allow each other to be contacts. If you check the Skype box in Timbuktu's Setup ► Incoming Access dialog box, a special Skype tab will appear in the File ► New Connection window, showing which of your Skype contacts have Timbuktu enabled.

VNC

COMPATIBLE ACROSS MOST COMPUTER PLATFORMS, VNC IS AS VARIED AS THE CLIENTS THAT SUPPORT IT

Most of the tools that enable you to remotely control a Mac are vendor-specific: To use them, you need to have matched software components—from Apple or some other source—at both ends of the remote connection. Another remote-access solution—VNC (Virtual Network Computing)—is comparatively generic, meaning that you can use compatible products from different vendors.

VNC is available for virtually (sorry) every operating system, so it can connect to or from nearly any computer platform. Mac OS X has built-in support for VNC; its Screen Sharing service is built on, and compatible with, VNC. There are also several VNC clients for iOS devices.

But VNC's flexibility comes at a cost: It lacks many of the user-friendly features of other remote-access tools. For example, it lacks the tools required to get around NAT gateways; you need to configure port mapping on

your router in order for the connection to get through. Even then, your router must have a public IP address.

VNC also leaves out encryption; some clients add that and other security features as an overlay, but others don't. VNC has no built-in file-transfer tool. Nor does it support multiple monitors in most cases; only the monitor displaying the system menu bar is shown. (There are some exceptions to this limitation if you're using Apple Remote Desktop [ARD].)

Setup

To enable VNC on a Mac, you can either turn on the support for it that's built into OS X or install a free third-party VNC server.

To turn on the VNC service in Leopard or Snow Leopard, start by launching System Preferences. Select the Sharing preference pane and make sure the box next to Screen Sharing is checked. Select Screen Sharing and click on Computer Settings. Select the VNC Viewers May Control Screen With Password checkbox and enter a password.

You should limit the password to eight characters, for the sake of compatibility. Such short passwords can be cracked, however, so you'll need to manually implement some security measures: In the Sharing preference pane, select the checkbox next to Remote Login in the list of services, to enable SSH access.

To connect to a computer that's providing remote access via VNC, you can use OS X's own Screen Sharing program, which works with the VNC servers on any platform. Or you can opt for third-party, for-fee options like JollysFastVNC (\$40; www.jinx.de) or Vine Viewer (\$35; www.testplant.com).

To make a VNC connection with one of these third-party products, you launch the program and then enter the IP address or hostname of the computer you want to reach; you can optionally specify the port for a network in which multiple computers are being shared via a single IP address.

Glenn Fleishman has written about Mac networking for a decade, and is the author of *Take Control of Screen Sharing in Snow Leopard* (www.takecontrolbooks.com).

SUMMARY

VNC

PROS Widely compatible; some clients handle OS X/ARD connections.

CONS Features depend on individual clients and servers; security requires extra steps; usually requires manual configuration of router; requires public IP address on router for outside connections.

BOTTOM LINE It will let you connect to and from almost any computing platform, and the variety of VNC software means a variety of features. But simple it's not.

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Mac OS X 10.6 (Snow Leopard)

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How Steve Jobs Beats Presentation Panic

Lessons that all presenters can learn from Apple's fearless leader

BY THOMAS WAILGUM

Steve Jobs had a serious and embarrassing Wi-Fi problem to deal with. It was plain to the thousands in attendance and the tons more people watching online: In June at Apple's Worldwide Developers Conference, Jobs was struggling with wireless connectivity while attempting to demonstrate the new features of Apple's iPhone 4.

"Our networks in here are always unpredictable, so ... I have no idea what we're going to find," he said. "They are slow today."

What Jobs did next, according to Carmine Gallo, author of *The Presentation Secrets of Steve Jobs* (McGraw-Hill, 2009), was vintage Jobs (and a model for how presenters should deal with stage crises): He did not panic. He did not look hot under the collar of his trademark turtleneck. His hours of practice and intimate knowledge of every inch of every slide made him comfortable enough that he could jump around to another part of the presentation (in this case, to look at photos).

The ability to deal with glitches demonstrates the difference between a good presenter and a below-average one.

Jobs asked the audience (and, presumably, his backstage engineers) for a little networking assistance. "You know, you could help me out. If you're on Wi-Fi, if you could just get off," he pleaded, to roaring audience laughter. "I'd appreciate it. We're having a little problem here."

And he sprinkled in several more bits of humor to diffuse any audience insecurity.



"I've got time," he joked, while waiting for the audience to "police each other."

"It was brilliantly done," Gallo says. "He's so well prepared that he knew what was coming next. He had a backup and went back to the photographs without missing a beat. And it didn't bring the whole presentation to a halt."

What every presenter needs to realize about this episode is that it certainly wasn't the first time Jobs suffered a

are expert tips for recovering from a presentation problem:

Have Backup Plans

The list of things that could go wrong during a presentation is horrifying and endless: You're using Microsoft PowerPoint or Apple's Keynote, and the application freezes. Network speeds plummet. Your handheld device crashes. An embedded video that is a key piece of your presentation won't load. And then you start getting heckled, and your powers of comedic relief desert you. Cue the dreaded awkward silence.

First things first: Practice, practice, practice, implores Gallo. "Jobs knows every slide on that presentation, every font on that presentation," he says. "I can't tell you how many hours he put into that presentation, but guaranteed, he put in more rehearsal time than 99 percent of people ever will, because most people do not put in this time."

That preparedness can equal comfort up on stage when things go awry—and they always do, Gallo says.

presentation-related mix-up, and it probably won't be the last. High-tech gear has become an integral part of almost every presentation today, and technology, as we all know, is like child actors and animals: It can never be counted on to act predictably once up on stage.

So, what should you do if this type of Jobsian situation happens to you? Here

"No matter how much time, work, energy, and money you put into a presentation, guess what: Something will probably not go according to plan," he says. "It's Murphy's Law: When something is supposed to work when you're introducing a new product or system, there's going to be a glitch."

What typically happens to unprepared presenters is that the presentation comes to a screeching halt. "The speaker really doesn't know what to do next," Gallo says. "They stop talking. They start fiddling with the product, and you can see the brains and the wheels spinning as to: What am I going to do next?"

Gallo adds: "You need to ask yourself: What's my backup? On that one part of the presentation, when I have to go to something technical or go to a live link or demonstration: What's my backup if it fails?"

You Can Be Imperfect, but Be Entertaining

Sure, he's the CEO of the tech company with the highest market cap on the planet. But Jobs is well aware of the power of a self-deprecating joke or humorous story. Or a plea for help.

"People get a little too consumed into thinking: I'm the presenter. Everything has to be absolutely perfect," Gallo says. "And then when you're up on stage and something goes wrong, you're kind of naked. Then it becomes uncomfortable. But Steve Jobs is always comfortable."

Gallo says that any presentation must do three things: inform, educate, and entertain.

"If you forget the entertainment part, that's when you're going to get caught up in yourself, and small glitches are going to turn into big problems," he says. "It's OK to entertain people and make jokes about what's happening."

Gallo recalls a presentation Jobs made a few years back when a presentation slide wouldn't advance. Calmly, Jobs announced that the slides weren't advancing—"so that his people would know there was an issue," Gallo says. "And he's troubleshooting as he's speaking: 'There's a slide problem and they're not advancing ... oh well,

someone will get that fixed.'" That led Jobs to bring up a fond and funny story about himself and cofounder Steve Wozniak. While Jobs told the story (which the audience loved), the Apple team fixed the slide problem, and when Jobs ended the anecdote, he simply moved on.

"He never let that glitch set him off his game," Gallo says.

Don't Sweat the Small Stuff

The ability to deal with glitches demonstrates the difference between a good presenter and a below-average one.

"If it's a small enough glitch where nobody in the audience knows that something is supposed to happen, don't call attention to it," Gallo points out. "I've seen this happen all the time. People said: 'Oh, that slide is not supposed to be there.' Or: 'Oh, I don't want to show you that!' It makes you look bad, and it brings the whole presentation to a halt."

In addition, you shouldn't panic over a couple of seconds of silence as you gather yourself after a technical hiccup, such as a slow network connection. "When something like that happens, take your time, pause for a minute, and remember that it's OK to have some dead air," Gallo says. "People keep thinking they just have to keep talking, talking, talking through something because they are afraid of a vacuum of silence. Twenty seconds to you may seem like an eternity, but it's not too big a deal in the context of a presentation."

During Jobs's WWDC presentation, there were several instances in which he took some time to try to remedy the technical issues and figure out his next step. "He was not afraid of the pause," Gallo points out. His use of humor (and, admittedly, an adoring crowd) also helped to diffuse any audience discomfort.

Gallo's own "One more thing ..." piece of advice (e-mailed to me after our interview) is a useful analogy that he tells his clients to remember when they invariably have to deal with a presentation mistake: "When a figure skater falls, everyone is rooting for the person to get up and finish the performance," Gallo says. "Pull yourself up and get on with it. Enjoy the performance."



Mamba Catch

If there's a happy middle ground between a comfortable messenger bag and a briefcase that's acceptable for business, Booq's new Mamba Catch (13 inch, \$130; 15 inch, \$150; www.booqbags.com) is aiming directly for it. The water-repellent, ballistic-nylon Catch looks sleek and businesslike thanks to a rigid shell that doesn't droop when you set the bag down. But unlike a briefcase, the Catch's design is modern and functional. The internal laptop pouch is nicely padded and lined with soft material, and it sits next to a document pouch, eight staggered pockets for smaller items, and a removable zippered accessory pouch. On the outside are three good-sized zippered pockets for quick access to your phone, wallet, boarding pass, and documents. A padded shoulder strap and a beefy carrying handle make toting the bag easy, as does a pass-through slot for attaching the Catch to your rolling suitcase's handle. And the bottom of the bag is rubberized for better durability. The Catch also features Booq's Terraling service: If you ever lose your bag, a unique ID number makes it easy for a Good Samaritan to return it to you.—DAN FRANKS

Thomas Wailgum is a senior editor at CIO (www.cio.com), where this story first appeared. You can follow his Twitter conversations at @twailgum or at twitter.com/twailgum.

ProSoft Data Rescue 3 Recovers Lost Files

BY JOHN BRANDON

REVIEW

With a large fire alarm switch on the front box cover, Prosoft Engineering's Data Rescue 3 makes a bold point: When your drive has problems, call in the rescue team. The software is intended for anyone who wants to do more than just repair a drive. You might have an urgent need to recover a deleted file, access files on a damaged drive to restore them, or examine files to see if they can be rescued. The program works with thumbdrives and external hard drives, as well as with flash cards from digital cameras.

Prosoft positions Data Rescue as a last resort, but in a true drive emergency, you'd probably need to enlist the help of a drive forensics company. These companies can dismantle a drive and reassemble the platter into the exact same drive components, all in hopes of rescuing your data. That procedure can cost thousands of dollars and take months. Comparatively, Data Rescue 3 is quite a bargain if it recovers your data.

Diagnostics and Deep Scans

When enlisting the help of Data Rescue 3, you will need to set aside some time. Most drive operations can take 30 minutes or more. Creating a clone (an exact copy of your drive on a second external disk) can take three to four hours, and running a deep drive-level scan can take all night, depending on the severity of the problem and the size of the damaged files.

Running a quick diagnostic on a drive to determine whether you have corrupt files takes only a few minutes. In several tests, Data Rescue 3 did reveal problems on the primary drive for my 2.4GHz Core 2 Duo MacBook running Mac OS X 10.6 (Snow Leopard). They were minor issues with corrupt files—easy to resolve by using the program's tools for restoring damaged files.

As a tougher test, I decided to analyze a very old 120GB USB drive that I knew had some serious file-corruption issues.



Response Time Typically, running Data Rescue 3 takes some time. When it's hard at work, the program displays animations of data on hard-drive platters. The animations aren't true representations of what's happening, but they are mildly entertaining.

This drive had been through the ringer: It had several former lives as a backup for a Windows Home Server, as a secondary drive for a video workstation, and as a primary drive for an iBook.

To my surprise, Data Rescue found files I had forgotten about years ago, repaired them back to health, and even allowed me to restore a few Microsoft Word documents to my network-attached server (after the fact) without a lot of fuss. Sure, the process took about four hours, but I was happy with the results. In the case of some complex Word files, Data Rescue was able to restore only the actual text, not the original document.

New Features

Data Rescue 3 improves on previous releases in one important way: It supports hundreds of file types, to give you the best file-recovery options around. A new feature called FileIQ also "learns" about file types,

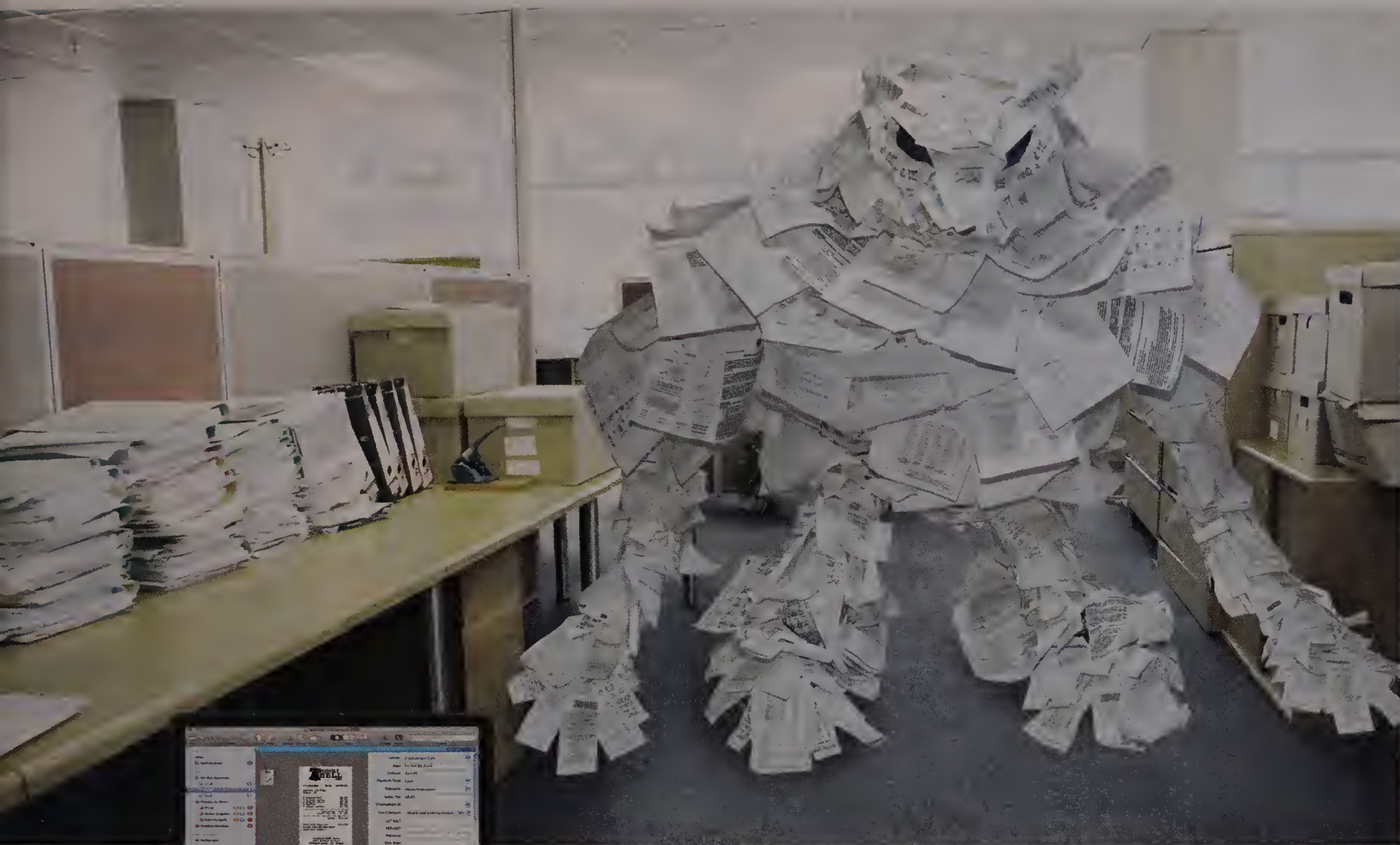
such as oddball raw files from digital cameras. In my tests, Data Rescue did a good job of at least pulling some of the photographic data out of these files.

The program also lets you burn a DVD clone of your hard drive. You can even use this disc to boot your Mac. This is a big help when you just need a backup startup drive and don't want to carry around an external hard drive.

Macworld's Buying Advice

Data Rescue 3 is a program that every Mac user should own for those times when important files need to be restored. It takes some time to use, but it can spare you the pain of file loss or the expense of hiring a forensics expert.

★★★★; \$99; Prosoft Engineering, www.prosofteng.com; full review, macworld.com/6360



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Five Underappreciated iCal Tricks

Look beyond your calendar program's basics with these tips

BY CHRISTOPHER BREEN

All too often, people treat Apple's iCal exactly like a paper calendar—a place to scribble down appointments and little more. But as these tricks demonstrate, iCal also has the power to automate, communicate, and remind.

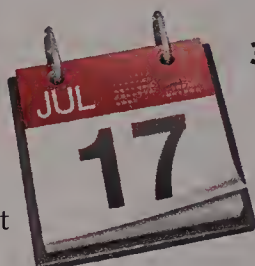
1. Quickly Create Events

Mac OS X's Data Detectors let compatible applications like Apple's iChat and Mail identify embedded information—addresses, phone numbers, days, dates, and times—that you can then use in other applications. Hover your cursor over something as innocuous as “lunch tomorrow with Paul,” in an e-mail message, for example, and a small triangle appears next to “lunch tomorrow.” Click that triangle and you have the option to create a new iCal event. That event will appear in iCal and be scheduled for the time you specify.

2. Schedule Automator Workflows

You have better ways to spend your time in front of the Mac than performing tedious chores. Using Automator (/Applications), you can create workflows that automate some tasks. Better yet, with iCal alarms you can trigger these workflows to happen when you're away. At the end of the day, for example, you could back up the files related to an ongoing project to another hard drive. To do so in Snow Leopard, launch Automator. In the template sheet that appears, select iCal Alarm and click the Choose button. Create your Automator workflow and save it. You'll be prompted

to name the alarm. Do that and click Save, and a new Automator calendar appears, along with an event that will trigger your workflow.

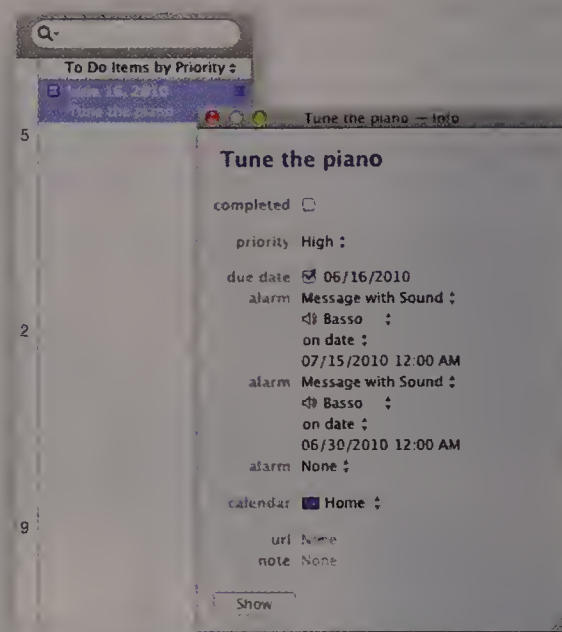


3. Easily Transfer Calendars and Events

Suppose you want to take the events on your desktop Mac and place them on your laptop for your next road trip. It's easy to transfer events, single calendars, or all your iCal calendars from one Mac (or account) to another. To make a copy of an event, just select it in iCal and drag it to your desktop, where it turns into a .ics file that any application or Web service that supports the iCalendar format can open. To copy a calendar, select it in iCal's Calendars column and choose File ▶ Export ▶ Export. The resulting sheet bears the name of the calendar. Click Export to save the copy. To export all of your calendars choose File ▶ Export ▶ iCal Archive. The resulting .icbu file contains all of your iCal calendars, ready for you to import into another copy of iCal.

4. Remember To-Dos

iCal users routinely create tasks with the program's To Do feature and then promptly forget to pay attention to them. If you need a gentle nudge, select a to-do item, press ⌘-E, and, in the window that appears, create an alarm for it. iCal's to-dos support the same kinds of alarms offered for iCal events—Message, Message With Sound, Email, Open File, and Run Script. Although to-dos don't include a repeat option, you can create multiple alarms



Remember Your To-Dos Get those to-do items done with the help of an iCal alarm.

simply by clicking the subsequent Alarm entry that appears after you create the initial alarm.

5. E-mail an Event

iCal has a helpful feature that lets you e-mail someone else an event. To do so, just Control-click (or right-click) on an event and choose Mail Event. Regrettably, this feature uses Apple's Mail application, regardless of the e-mail client you may have configured as the default. If you use a different e-mail client, you'd be completely out of luck if not for ZappTek's iCal E-mail Notifications (payment requested; www.zapptek.com/ical-mail). These AppleScripts force iCal to choose a different e-mail client. Although the ZappTek site makes no mention of Snow Leopard, the Leopard scripts appear to work with Snow Leopard's version of iCal.

SOFTWARE

Goodies, from Jumsoft (www.jumsoft.com): Collection of Numbers templates, themes for Karelia's Sandvox, stock photos, and Keynote-ready textures (free).

PopChar X 5.0, from Ergonis Software (www.ergonis.com): Utility for inserting special characters into documents now lets users store frequently used characters and more (€30).

Postbox Express, from Postbox (www.postbox-inc.com): Free e-mail client has a wide range of search and organization options but not the heavy-duty features the paid version offers.

Projecturf 2.0, from Projecturf (www.projecturf.com): Web-based project management software gets more Mac-friendly and adds unlimited storage space (individual plan, \$10).

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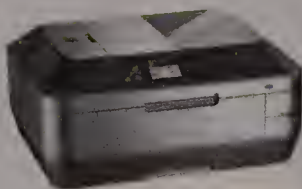
REVIEWS

Hardware and Software for
All Your Business Needs

HARDWARE

Canon Pixma MX870 ▸

Canon's Pixma MX870 color



inkjet multifunction printer offers a lot of features and performance for the money. Plain-text pages printed at a rate of 6.4 pages per minute. Color pages averaged just under 0.5 ppm on the Mac. Color prints on both plain and photo paper had rich, smooth color, and text pages looked sharp. At the default settings, however, the MX870 produced color scans that were excessively dark. Business-friendly features abound: You can connect via ethernet, USB, or Wi-Fi. The beveled scanner bed cover includes a foldout, 35-sheet automatic document feeder, an essential feature for any office. The Pixma MX870 also has an unusually generous paper capacity, with a 150-sheet undermounted drawer for plain paper only, plus a 150-sheet rear vertical tray for feeding all other kinds of media. Card readers accommodate CompactFlash, Memory Stick, and SD Card formats; you'll need a third-party adapter for XD Picture Card. The Pixma MX870 has a separate ink cartridge for each color. The black pigment (PGI-220) works out to 4.62 cents per page. A page with all four colors would cost about 12.4 cents. The Pixma MX870 is one of the better-balanced inkjet MFPs we've tested recently. It delivers good performance and features for the price. While the machine is best suited for a small or home office, its media slots and good color output make it useful for a busy family as well (macworld.com/6362).

⚡⚡⚡; \$150; Canon, www.usa.canon.com

Clearwire Clear 4G USB Modem ▸

The Clear 4G USB Modem, a Clearwire-branded Motorola USBw 25100 WiMax adapter, is basically a 4G radio on a USB



stick (4G stands for the "fourth generation" of cellular wireless standards). The modem costs \$70 from Clear without a contract, or you can lease it for \$4 per month with a two-year contract. The modem is relatively easy to set up, and Clear includes a USB elbow adapter to help you point the antenna in the optimal direction. Mac OS X support is available at www.clear.com/support/download. The modem does not come with a static IP address, which means that it's more difficult to use for many Internet services, such as videoconferencing, Voice over IP, or gaming. You must upgrade to the Clearwire Professional subscription to get a public address. If you don't need to connect outside the range of a 4G network and you live in one of the covered areas (see www.clear.com/coverage), the Clear 4G USB Modem might be the appropriate choice. Anyone who travels, or lives in one of the many non-4G cities in the United States, would be better off looking for a dual-mode 3G/4G modem (macworld.com/6363).

⚡⚡⚡; \$70; Clear, www.clear.com

Kodak ESP 7250 ▽

Kodak's ESP 7250 multifunction device offers home and student users a fun assortment of features for a midrange price. The ESP 7250 is easy to use from the get-go. You can install it via USB, ethernet, or Wi-Fi; and completing the driver and network installation processes takes just a few clicks. Using Kodak's Pic Flick app, you can print photos from an iPod touch or iPhone. The ESP 7250 lacks an automatic document feeder for the letter-size



flatbed scanner, however, and its main paper tray holds just 100 sheets. In our tests, the ESP 7250 was slower than most competing devices, and not all of its output was worth the wait. Text speed was 3.6 pages per minute (ppm) on a Mac, and the output quality, though generally crisp, was dark gray rather than black. Photo print speed was better, at 1.8 ppm. On Kodak's own special paper, photos looked nice; but the same images on plain paper were faded, yellowy, and grainy. Kodak's ink costs are among the cheapest around. The 10C tricolor cartridge (\$18) is rated for 420 pages, or only 4.28 cents per page. The 425-page 10B black cartridge (\$10) comes out to 2.35 cents per page (macworld.com/6365).

⚡⚡⚡; \$200; Kodak, store.kodak.com

Lexmark Interact S605 ▽

Lexmark's Interact S605 color inkjet multifunction printer avoids being just another \$200 multifunction device by including a 4.3-inch color LCD touchscreen for its control panel. The touchscreen looks great, and Lexmark's well thought out design makes it intuitive and easy to navigate. Automatic duplexing (two-sided printing) is this printer's other big plus. Otherwise, the Interact S605's features are unremarkable. There is no automatic document feeder, just a flatbed scanner that holds letter-size paper. The



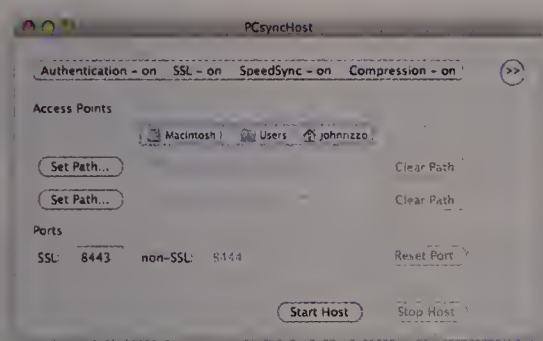
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rear, vertical input tray holds a scant 100 sheets. The Interact S605 managed a lackluster 4.1 pages per minute for plain-black text. High-resolution color photos printed at 0.7 ppm. The standard-size "100" inks include a 170-page black cartridge (9.4 cents per page) and separate 200-page cyan, magenta, and yellow color cartridges (5 cents per color per page). This printer has some nice features that could tempt someone buying for a small or home office. Unfortunately, pricey inks make it unsuitable for all but the lightest-volume situations (macworld.com/6437).

★★★; \$200; Lexmark, www1.lexmark.com



SOFTWARE

PCsync 6.0

When you work on both a Mac and a Windows PC, syncing projects can prevent problems like multiple versions or missing files. Laplink recently added Mac support to its PCsync computer syncing product for Windows. The program provides secure one-way or two-way syncing with a variety of options. PCsync will move data over one of Laplink's optional USB cables (\$30 or \$40 depending on speed), an ethernet cable, or a network. This first Mac version is clearly an add-on to the Windows version. You can set up and initiate syncs only from the Windows PC. PCsyncHost running on the Mac can sync only with a PC that connects to it, and cannot sync with another Mac. Laplink said that it would add Mac-to-Mac capability in a future version. Despite its limitations, PCsync doesn't require that you have file sharing enabled on the computers, which makes it easier to use than ordinary Mac-to-Windows file transferring methods (macworld.com/6285).

★★★½; \$40; Laplink, www.laplink.com

Top Products YOUR GUIDE TO THE BEST HARDWARE WE'VE TESTED

HARD DRIVES

Desktop

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
iT1 Dock (pictured) www.istoragepro.com	★★★★	\$329 (2TB)	quad interface	5843
Rocpro 850 www.rocstor.com	★★★★	\$129 (500GB)	quad interface	5397
VR Mini www.caldigit.com	★★★★	\$629 (1TB)	quad interface	5396

HARD DRIVES

Portable

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
eGo Mac Edition www.iomega.com	★★★★	\$110 (500GB)	triple interface	5219
Mercury On-the-Go (pictured) www.macsales.com	★★★★½	\$180 (320GB, 7200 rpm)	triple interface	4258
Pocket iT1PKT72320 www.istoragepro.com	★★★★	\$259 (320GB)	dual interface	5808

INPUT DEVICES

Keyboards, Mice, Pen Tablets

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
Intuos4 Wireless intuos.wacom.com	★★★★½	\$399	pen tablet	6422
Magic Mouse www.apple.com	★★★★½	\$65	mouse	5485
TactilePro 3 (pictured) www.matias.ca	★★★★½	\$150	keyboard	6421

PRINTERS

Label

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
5130cdn (pictured) www.dell.com	★★★★½	\$1549	LED, color	6009
C544DN www.lexmark.com	★★★★½	\$399	LED, color	4356
HL-4070CDW www.brother-usa.com	★★★★½	\$336	PostScript-compatible	3385

PRINTERS

Multifunction

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
Artisan 810 (pictured) www.epson.com	★★★★½	\$300	inkjet	5916
Color LaserJet CM1312nfi www.hp.com	★★★★	\$350	laser	5183
Pinnacle Pro901 www.lexmark.com	★★★★½	\$199	inkjet	6423

^A All prices are the best current prices taken from a PriceGrabber survey of retailers at press time. ^B In a browser's address field, typing a find code after macworld.com/ takes you to a product's review or overview.

BUSINESS CENTER

News and Analysis about
Macs in the Workplace



New Bundles Simplify iWeb Website Design

iPresentee, maker of themes and presentation media for software like Apple's Keynote and Mail, has released iWeb Themes 8.0 (macworld.com/6366), a collection of five new themes for Apple's drag-and-drop Web design program.

iWeb Themes 8.0 (\$25 for all, or \$10 each) includes both Flash and "standard" (read: not Flash) versions of the themes: Comics, Eco, Greenery, Light Colors, and Red Sunset. Each theme includes 10 page templates: Welcome, About Me, Photos, My Albums, Movie, Blog, Podcast, Blank, My Hobbies, and News. These are actually a series of layered images that users can customize, replace, or remove altogether.

The Flash editions of iPresentee themes typically include some kind of animated background header element. In the Comics theme, for example, you'll find a cloud that rains. The bulk of each theme's Flash version is still standard HTML.

The release of iWeb Themes 8.0 gives the company's \$70 all-encompassing iWeb Suite (macworld.com/6367) a total of 75 iWeb themes. Each of these bundles requires Mac OS X 10.4.3 (Tiger) or later and iWeb 2.0 (which is part of iLife '08) or later. —DAVID CHARTIER

Oversee Your Company's Social Media with Hootsuite

Surprisingly few social media programs take on the task of helping businesses tackle Twitter, Facebook,



and the rest of the social Web. HootSuite (www.hootsuite.com) is one of these select few, and it has recently undergone a major upgrade in the name of simplicity, compatibility, and speed.

HootSuite is a Web-based "social media dashboard" that can be used by just about anyone, but it's really geared more toward businesses and workgroups. Users can add multiple accounts, grant coworkers permission to use those accounts, and even assign follow-up work through HootSuite, all without having to give away sensitive login information.

With this upgrade, HootSuite aims to become a faster, more compatible, and more useful service. It's been redesigned in HTML5, which brings a slew of new features for users with modern browsers such as Safari 5, Firefox 3.6, and Chrome—features like location-based searches and drag-and-drop file uploads.

The new HootSuite has also gained support for Twitter's official Retweet feature for syndicating a tweet to your followers, uploading photos to Facebook, and viewing Google Analytics for your sites.

The HootSuite Web service is free. The company offers both free and paid (\$3) versions of its iPhone app (itunes.apple.com/us/app/hootsuite/id387014100?mt=8; macworld.com/6424). —DAVID CHARTIER

ChronoSync Makes Backups Easier

Now consumers and small businesses have one less excuse for forgetting to back up their data. Updates to Econ Technologies' ChronoSync and ChronoAgent add new scheduling and networking features that help make sure backup and syncing operations get done.

ChronoSync 4.1, Econ Technologies' (www.econtechologies.com) core backup and syncing client, has gained an entirely new Scheduler preference pane filled with options for customizing scheduled backups. It includes contingency plans for what to do if a scheduled backup is missed (say, if your Mac slept through it). You can also now trigger a backup or sync when a specific volume is mounted.

ChronoAgent, a companion utility to ChronoSync, runs in the background on a destination Mac, allowing for things like direct Mac-to-Mac communication without the need for other protocols such as AFP and SMB. This gives you full root access to a destination Mac, allowing you to copy files, preserve file permissions, and create full bootable backups and syncs between Macs. ChronoAgent 1.1 introduces a new Sync When Available option, which allows Macs to get backed up or synced when they join a specific network. The ChronoSync and ChronoAgent updates are free to existing owners. Individual licenses for ChronoSync start at \$40, while ChronoAgent starts at \$10. —DAVID CHARTIER





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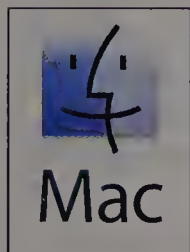


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PLAYLIST

Everything You Need to Know about iPods, iTunes, and Mac-based Entertainment

An iPhone on Every Couch

5 iPhone IR remotes for your home entertainment system

BY CHRISTOPHER BREEN

The iPhone and iPod touch are wonderful devices for performing any number of tricks. But I don't find them to be particularly good as universal IR remote controls when coupled with infrared dongles or cases—especially compared to dedicated alternatives such as Logitech's Harmony remotes (www.logitech.com), which are much easier to set up, provide greater functionality, and in some cases aren't significantly more expensive than their iPhone and iPod touch counterparts.

To test my observation, I tried out five iPhone IR remotes: iGi's \$70 i-Got-Control (★★★; macworld.com/6408), L5 Technology's \$50 L5 Remote (★★★½; macworld.com/6409), NewKinetix \$70 Re (★★★; macworld.com/6410), New Potato Technologies' \$80 FLPR (★★½; macworld.com/6411), and Power A's \$60 iPhone Universal Remote Case (★★★; macworld.com/6412). Each includes some kind of IR device (a dongle or case) that attaches to the iPhone or iPod touch's dock connector (currently Power A makes a case only for the iPhone 3G and 3GS—the case won't fit the iPhone 4). The accompanying app interface appears upside-down so that you operate the app with the IR port pointing away from you and at your equipment.

Live and Learn

All five of the remotes are capable of learning commands from hardware remotes, but only the L5 is strictly a learning remote. The others all have databases of common brands. Using these databases, you walk through a setup process where you tell the app the brand

In Control So far, no iPhone IR remotes we've seen match a dedicated universal remote.

and type of gear you're creating the remote for (a Denon stereo receiver, for example). In the process, the app provides you with an opportunity to test the remote to ensure that it works. If the remote doesn't work, you can often try different preset codes until you find one that gets the job done. If no code is successful, you can use the app's learning capabilities.

Set Up and Edit Remotes

How you create and edit remotes with each app varies, but none of the five remotes make the process dead simple or as easy as it is with a dedicated remote.

i-Got-Control i-Got-Control offers a three-part selection wheel where you

choose the device type (amplifier or TV, for example), the brand (Samsung, say), and remote code (something like 0262 or 0370). Select a code, tap the Test Power button, and, if the device switches on, you're on the right track. If not, choose a different code and try again. If you find this too tedious, tap the Start Search button and the app will try one remote code after another until you find one that works.

At this point you have access to three screens. The first two carry buttons commonly found on the device you're controlling. The third is for adding macro buttons—buttons that can trigger multiple commands. I was able to create



a couple of successful macros but the app doesn't handle delays well—making it hard for it to power on my receiver, wait a couple of seconds for it to come to life, and then switch receiver inputs.

On a positive note, the i-Got-Control app does include the System PWR button, which allows you to power on and off multiple devices with a press of that single button.

L5 Remote The L5 Remote asks that you use elements found in tool palettes to design your remote. You can create a basic or custom remote. When you create a custom remote, you can drag elements—groups of buttons such as typical TV or DVD player controls or individual generic buttons—onto the design area. From there you can arrange the buttons as you like, resize and rename them, and then teach each one its function by using a component's original remote.

Choose a basic remote and you're presented with a layout that contains power, channel up and down, volume up and down, 0 to 9, and mute buttons. You're welcome to add more buttons. Additionally, the L5 Remote app lets you create macro buttons with pauses between button presses.

Regardless of which method you choose to create your remotes, doing so is a time-consuming process that requires a lot of fiddling. This app (and others) cries out for a computer-based environment to create your remotes and then sync them to the iPhone.

Re With the Re you create remotes based on rooms, devices, and activities. Create a room, and then choose a brand from a selection wheel and a device type from another wheel. Then you can test a group of device codes—there's also a Start Search button that will try each code for you. If the correct device code isn't in the database (as happened with my older Denon receiver), then you have to teach each button.

Once you've created the remote, you can rearrange the order of buttons and delete buttons you don't need. The latter is a tedious process because the remote is often populated with extraneous buttons. Also, the Re often failed to

learn the commands of my original remotes, reporting failures time and again. It eventually accepted the commands, but its decision to do so seemed arbitrary.

The Re's macro function is called Activities. Using Activities you can choose the devices you want to be part of the activity. You can also modify the Start button (the button that starts your devices and chooses inputs) by adding a series of actions to it.

FLPR The FLPR app makes it easy to create remotes, but its database has far fewer brands than the other apps and it doesn't let you choose device codes—it either works with your gear or it doesn't. If the remote doesn't work (as was the case with my Sony receiver), you have to program each button through the app's learning feature.

You can't add buttons to the template or remove them, nor can you change their size or position. Also, the remotes the app creates are pretty limited. If you want to access other buttons, you might find them in a very long list of additional buttons that appears on a secondary scrolling screen. The FLPR app does let you create macro buttons, plus you have the option to enter a delay period between steps in the macro—handy when you have a component that needs time to start up before it will accept other commands.

Power A The Power A is an iPhone case that houses an IR transmitter in the bottom of the case. The software includes a device database that you can use to help create remotes for your gear. The software walks you through the setup for each device, but the resulting remote screen is pretty bare. To duplicate some of my remotes I had to add and teach the function to buttons.

Unfortunately, the app wasn't capable of learning all my remotes. While it had no difficulty learning commands for an LG Blu-ray player, it was completely stumped by the remote for my Sony AV receiver. It recognized the Sony remote and appeared to accept its commands, but they didn't work in the resulting virtual remote, which would be a deal killer if I were depending on it.

Hollywood Pushing UltraViolet

BY DANIEL IONESCU



The Digital Entertainment Content Ecosystem (DECE), a group of 58 Hollywood studios and technology companies, is pinning its hopes for the future of entertainment on UltraViolet (uvvu.com), an online digital locker that would allow you to buy a movie once and stream it over the Internet for free on compatible devices.

UltraViolet won't be a store, but rather a standard, like Blu-ray, DVD, or MP3. On board to deploy it sometime this year are Hollywood studios including Sony Pictures, Paramount, and Lionsgate; technology companies such as HP, Intel, LG, Nokia, Panasonic, Philips, Sony, and Toshiba; and content distributors like Comcast and Netflix. Missing from the list are Apple, which has its FairPlay DRM, and Disney, which is also working on its own digital vault called KeyChest.

In the beginning, UltraViolet will work only with movies and TV shows, but the plan is to expand it to music and e-books, too. It's unknown who will host the movies so that you can stream them to your devices. There's also no mention of whether you can bring your old DVDs and Blu-ray discs into UltraViolet's library or how many family members you will be able to share the content with.

Pricing for UltraViolet-enabled discs remains a mystery as well. Also to be determined are whether these discs will cost extra and how much an UltraViolet-compatible set-top box will cost.

The iTunes Librarian

BY KIRK MCELHEARN



Organize E-books iTunes shows books (e-books) in the top section of the Books library and audiobooks in the bottom section.

With the arrival of iOS 4, the iPad, and iTunes 9.2, iTunes can now manage e-books for syncing to Apple's iBooks app. iTunes accepts two types of book files: those in ePub format and PDF files. But organizing e-books in iTunes can be a bit baffling.

First, you'll see a Books library in iTunes' sidebar. (If you don't see it, choose iTunes ► Preferences, click the General icon, and check the box next to Books in the Show section.) This library, represented by a book icon, houses two types of files: audiobooks and e-books.

Grid view is useful because you can choose one of three views to sort your books: Books, Authors, or Categories. The Books button sorts by title, with the two types of files separated. The Authors button sorts by author but mixes e-books and audiobooks. Finally, the Categories button sorts by genre. (You can find out more about these different views at macworld.com/6413.)

When viewing the Books listing in grid view, you can also choose how they're sorted. Choose View ► Sort Books, and you can tell iTunes to display books in order by

author, title, or year, as well as pick ascending or descending order. (There are other options as well, but they're grayed out—perhaps they'll be available later?) Curiously, while iTunes sorts my e-books correctly by the authors' last names, it sorts audiobooks by their first names.

If you double-click one of the author icons, the display changes to a list view, with the book cover(s) showing in the left column. You can view all of an author's works in this manner.

You can also add PDFs to iTunes—they display by default in the Books library. To display them elsewhere, choose a file, press ⌘-I, click the Options tab, and then choose one of the options from the Media Kind menu. If you have a file you'd rather store with an album in your Music library, choose Music, and make sure you tag the file with the artist and album names. The same goes for adding PDFs to the Podcast and iTunes U libraries: You can store PDFs in those libraries by choosing one of those Media Kind types, but you'll need to fill out other tags to sort them correctly. (For more on PDFs in iTunes, see *Mac OS X Hints*, page 86.)

Can I Cut the Cable Now!?

BY CHRISTOPHER BREEN

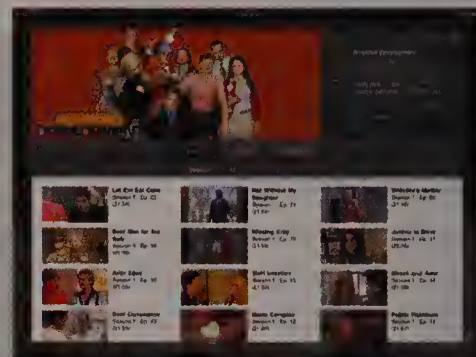
Nearly a year ago, I offered tips for cutting the cable bill (macworld.com/6414). Since then, certain things have changed that make it even more tenable—but there are still some issues that might get in the way.

The first change is Hulu Plus—Hulu's \$10-a-month subscription-based TV streaming service (still in limited beta release and not available outside the United States). While Hulu Plus demands that you watch as many commercials as you do using the free version of Hulu, it provides full seasons of some popular and current shows and streams a portion of its content in 720p HD.

Netflix's Watch Instantly service has also improved its quality and selection. And then there's the iPad. Both Hulu Plus and Netflix offer iPad apps for streaming each service's content wirelessly.

There are, of course, plenty of disincentives for dropping your TV plan. Sports, for one—NBA Live and MLB.TV do stream basketball and baseball games, respectively, for a fee, but there are limitations to both. And what would some people do without their DVRs for recording TV shows for later viewing—and zipping through commercials?

As I was a year ago, I'm tempted. But for now my TV remains tethered.



Hulu Plus Ten dollars a month buys you all the TV you can watch.

REVIEWS

Home Entertainment Hardware,
Software, and Accessories



HARDWARE

Archos 7 Home Tablet △

The Archos 7 Home Tablet is an inexpensive Android tablet meant for people who want to access (not create) media such as video, audio, images, e-mail, and Web content, but don't have high-performance expectations. Aided by the easy-to-use Android 1.5 operating system, the Archos 7 performed these tasks relatively well, but we had trouble navigating to, and controlling, these applications through the device's touchscreen (macworld.com/6387).

★★½; \$200; Archos, www.archos.com



Logic 3 i-Station Rotate △

Everything about the i-Station Rotate is solid—the speaker system's design and portability, its remote, and its audio quality. Unlike most docking speaker systems, you can rotate its cradle between vertical and landscape orientations. This rotation feature is more than a gimmick—it makes on-the-go movie watching far more pleasant, and it might even serve to keep your iPod or iPhone a bit more protected. Just be sure not to lose the remote control—with the Rotate's limited on-board controls, you'd undoubtedly need to buy a replacement from Logic 3 if you didn't want to get stuck relying on your player's own controls (macworld.com/6388).

★★★★; \$130; Logic 3, www.logic3usa.com



Sennheiser MM 100 △

The MM 100 is the best-sounding set of lightweight, Bluetooth headphones we've yet tested. The set is comfortable enough for hours of listening at your desk or around the house, but it's also a great fit for exercising. The headset capabilities make taking a call convenient, even if they aren't up to the quality of a dedicated headset. And we like that if Apple ever fully supports the A2DP streaming profile, the MM 100 will be ready, thanks to built-in playback controls. If you're willing to pay the premium for wireless functionality, the MM 100 is an appealing option (macworld.com/6389).

★★★★; \$200; Sennheiser, www.sennheiser.com

Sezmi ▷

Sezmi has the perfect pitch for people who are fed up with cable: Why pay for

all those channels you never watch when you could get slimmed-down subscription television for less? By offering what is essentially over-the-air TV combined with Web video, Sezmi bypasses the traditional fiber route with more programming than you'll ever get through rabbit ears. If Sezmi proves unsuccessful and the company goes under, however, it's your tough luck on that hardware investment. However, with subscriptions of either \$5 (Select) or \$20 (Select Plus) a month, it won't take long before you've actually saved money compared to the high cost of monthly cable or satellite subscriptions (macworld.com/6890).

★★★; \$150; Sezmi, www.sezmi.com



iPods: Current Lineup

PRODUCT	SPECS	RATING	PRICE ^A	DISPLAY	PERFORMANCE	FIND CODE ^B
iPod Classic 	160GB	★★★★	\$249	2.5-inch color	36 hours of music playback; 6 hours of video playback	5262
iPod Touch 	8GB	★★★★	\$199	3.5-inch color	30 hours of music playback; 6 hours of video playback	3864
	32GB	★★★★½	\$299	3.5-inch color	30 hours of music playback; 6 hours of video playback	5257
	64GB	★★★★½	\$399	3.5-inch color	30 hours of music playback; 6 hours of video playback	5258
iPod Nano 	8GB	★★★★½	\$149	2.2-inch color	24 hours of music playback; 5 hours of video playback	5363
	16GB	★★★★½	\$179	2.2-inch color	24 hours of music playback; 5 hours of video playback	5364
iPod Shuffle 	2GB	★★★	\$59	none	10 hours of music playback	5267
	4GB	★★★	\$79	none	10 hours of music playback	5268

^A All prices are Apple's prices. ^B In a browser's address field, typing a find code after macworld.com/ takes you to a product's review or overview.

Macworld **HOT STUFF**

What We're Raving
about This Month



QuickerTek iPad USB Charge Monitor

When it comes to power for charging your iPad, iPhone, or iPod touch, all USB ports are not equal—they can supply anywhere from 100mA to more than 1 amp. This means your iPhone or iPod touch may charge slowly or quickly, or your iPad may appear not to charge at all. QuickerTek's \$30 iPad USB Charge Monitor lets you check any USB port or charger to see if it's capable of charging your iPad and, based on the power level, helps you determine how quickly it can charge the device (it also works with the iPhone and iPod touch). The four LEDs on the dongle—which fits between your device's USB dock-connector cable and the USB port—display the port's approximate power level: A 100mA port won't charge your iPad; 400mA will charge it slowly (though the iPad's charging indicator won't appear); 700mA will charge the iPad more quickly (and display the iPad's charging indicator); and 1 amp or more will give you the full-speed charging of the iPad's own power adapter (quickertek.com).—**DAN FRAKES**

Griffin Technology PowerBlock Plus Universal

A stand-alone USB charger lets you juice up your iPod, iPhone, or iPad without having to keep your computer running, but it also occupies a precious AC outlet. Griffin Technology's \$30 PowerBlock Plus Universal solves this dilemma. Just plug in the PowerBlock Plus, and you get a USB-charging port *and* a pass-through two-pronged AC outlet. The accessory works with 100- to 240-volt AC outlets, and its USB port provides 5 volts of DC power at 2.1 amps—which means it supports high-speed charging of an iPad (www.griffintechology.com).—**DAN FRAKES**



Pulsar 2

TiVo has let us pause and replay live TV for a long time now, but what if you want to do the same with satellite radio? Now you can, thanks to Rogue Amoeba's new version of its \$20 XM and Sirius desktop client, Pulsar. Along with some interface improvements, the update gives XM and Sirius subscribers the capability to pause, replay, or fast-forward live radio. Also included is a new Next Song command that skips any songs you don't like. The new version also improves the Favorites list, incorporates Growl integration, and gets an overhauled interface with improved graphics and layouts (www.rogueamoeba.com).—**DAVID DAHLQUIST**



Netflix Coming to Canada (and Beyond)

Our neighbors to the north have reason to rejoice. First, the iPhone 4 is now available in Canada, and soon Netflix will introduce a streaming-only service for Canadian residents to watch unlimited movies and TV shows for a monthly fee. The Canadian operation, set to launch in the fall, will be the first of several international Websites that Netflix intends to launch in the coming months. While the service's cost and launch date have not yet been revealed, interested users are encouraged to sign up for e-mail notifications. Unlike its American counterpart, however, the Canadian Netflix service will not offer customers the opportunity to rent physical media (www.netflix.com).—**MARCO TABINI**



SONOS ADDS WOLFGANG'S VAULT CONCERTS

If you're a music buff, you've probably heard of Sonos, maker of the Sonos Multi-Room Music System. Sonos has supported various music streaming services such as Rhapsody and Napster, and now it has added Wolfgang's Vault to its roster, the global music service that features more than 3500 live concerts from the likes of Bob Dylan, Elton John, Pink Floyd, and Miles Davis. Wolfgang's Vault Concert Vault features master recordings from the archives of Bill Graham Presents dating from 1960 onward, and Sonos customers can enjoy the Wolfgang's Vault streaming service free for 30 days; further use requires a premium membership of \$48 annually (www.sonos.com).—**DAVID DAHLQUIST**

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Next Track: Double Click

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Volume Down

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Memos, Voice Control and
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DIGITAL PHOTO

Techniques and Gear for Shooting, Editing, and Managing Great Photos

Fast iPhone Photo Fixes

Use your photo editor to remedy common iPhone image problems

BY BEN LONG

The iPhone's camera is great for taking spontaneous photos for sharing on sites like Facebook or Flickr, or even for making paper prints and photo books. A few tweaks in a photo editor can greatly improve your iPhone images, whether you took them with a first-generation iPhone's 2-megapixel camera or the iPhone 4's 5-megapixel one. Here's how to handle some of the problems that regularly crop up in iPhone images.

Get the Tools

If you already use iPhoto to transfer your images from your iPhone, there's no reason not to do your editing there. Photoshop has more image-editing power, but since iPhone images don't give you a lot of image-editing latitude, the extra power won't buy you much.

Though we're focusing on iPhoto, you can make these adjustments in most image editors, and even make some tweaks in Preview. Alternatively, you can use an app like Photoshop.com Mobile, Photogene, or Perfectly Clear to do a lot of these edits directly on your iPhone.

Adjust White Balance

In general, the iPhone's white balance is very good when you're shooting in bright daylight, but with other light sources the white balance can get out of whack. A bad white balance manifests itself as a color cast in your image—one that is either too warm (reddish) or too cool (bluish), or that has some other color tone (like yellow or orange when shooting in low light).

Adjusting iPhoto's Temperature slider can help correct these problems.



Fixing iPhone Pictures By experimenting with the various sliders in iPhoto's Adjust palette, you bring out the best in your iPhone photos.

If your image contains something gray, use the white-balance dropper to select the neutral gray and see if that corrects your white balance. Keep in mind that not all white-balance problems can be fixed, especially when you're working with small JPEGs like the ones the iPhone produces.

Fix Dull Colors and Skin Tones

The phone often produces images that aren't as saturated as they could be. Although iPhoto has a Saturation slider, you might find that the Temperature slider works better for strengthening the color in your image. If flesh tones still look a little unsaturated, try increasing

the temperature, or sliding the Tint slider a tiny bit toward the pink side. Just a little bit of temperature and tint correction is all you need when correcting skin tones.

The iPhone's images don't pack a lot of dynamic range, and are simply not as data-rich as ones you get from a real camera. This means that your adjustments won't yield as much change, and that they will quickly degrade the image if you push them too far.

Bump Up Your Contrast

If your image looks a little flat or hazy, or if the darkest thing in the image is a black object that isn't appearing truly black, then the photo probably has a

contrast problem. Move the leftmost slider in the Levels control to the right to correct the problem. You can also move the rightmost slider to the left to improve contrast, but be careful that the highlights don't overexpose to complete white. You can also adjust the Contrast slider, but the Levels slider gives you more control and enables you to protect bright highlights.

If you shot an image in low light, try increasing the Exposure slider, being careful not to overexpose highlights. You can try moving the Shadows slider to the right. But by brightening an iPhone image with either of these controls, you risk increasing noise.

Sharpen Soft Shots

All iPhone images will need sharpening. Slide the Sharpness slider to the right, but not so far that your image becomes oversharpened. If you start seeing halos around edges, you've gone too far. With sharpening, it's better to err on the side of not enough than to stray into too much. Even with a good amount of sharpening, your images will still not be as sharp as what you'd get from a good point-and-shoot camera. This is not so much a function of megapixels as it is of the small lens on the iPhone's camera.

Sharpening can increase noise, so you want to find a balance between these two factors. You can try to tackle the noise problem with the Reduce Noise slider, but this can soften your image.

Don't Overthink

Don't spend too much time trying to make your iPhone photos perfect. They're never going to look like images from a DSLR or a good point-and-shoot, and too much editing can actually decrease the quality of an image. Luckily, iPhone photos have a low-fi feel that can be part of their charm, especially if you play it up with an app that imitates film, such as CameraBag (macworld.com/4144) or Hipstamatic (macworld.com/5933).

Senior Contributor **Ben Long** is the author of *Complete Digital Photography*, fifth edition (Charles River Media, 2009).

Next Step: Create Prints

BY BEN LONG

Once you've perfectly edited your iPhone's images, you can print them as decent 4-by-6-inch prints, and possibly even rather good 8-by-10-inch prints.

Pick a Size

If you're printing to a photo inkjet printer, then ideally you want the resolution of your print to be 240 pixels per inch. At this resolution the first-generation iPhone or iPhone 3G's 1600 by 1200 pixels will yield a 5-by-7-inch print. The iPhone 3GS's 2048 by 1536 pixels will give you a 6-by-8, while the iPhone 4's 2592 by 1936 pixels will get you an 8-by-10.

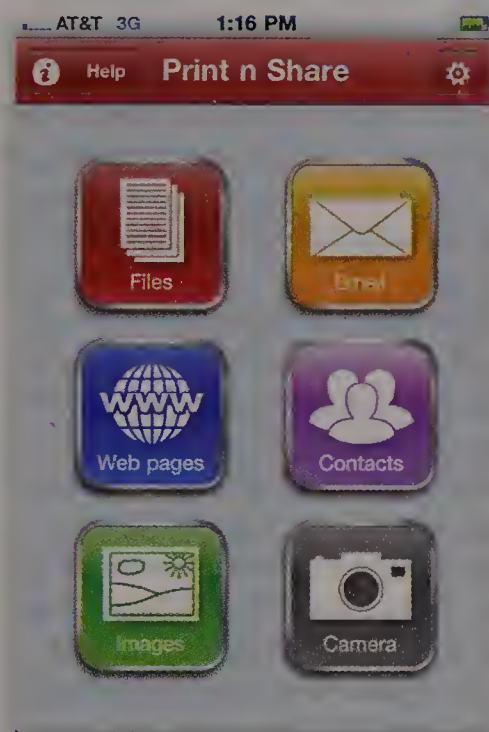
Just because your iPhone delivers these specs doesn't mean you're going to get prints that are as good as what a point-and-shoot digital camera can produce at the same size. Also, you can go larger than these sizes, but you'll possibly see a softening of the image. However, larger prints are usually viewed from farther away, so a little less detail in a larger print isn't necessarily a bad thing.

Understand Aspect Ratios

The iPhone shoots an image with a 4:3 aspect ratio. If you plan to print a borderless image on a 4-by-6-inch piece of paper (or any other print size with a 2:3 aspect ratio), then you'll need to crop your image. If you'd rather bypass your Mac and crop the image on your iPhone, you can use Photogene (macworld.com/6446), an app that provides cropping (with constraints for 3:2 and 4:3 aspect ratios) and image-editing tools like levels and sharpening adjustments, as well as decent saturation controls. It should provide everything you need to get your shots ready for printing.

Print from Your iPhone

If you don't want to waste time transferring images to your computer, you



Print On the Go Send photos to a printer directly from your iPhone.

can instead do all the printing directly from your iPhone. This is a great option, especially if you're doing your editing on the iPhone. EuroSmarzt's Print n Share (macworld.com/6056) is an iPhone app that lets you select any image on your phone and send it to any printer that knows how to make itself visible to your LAN (local area network). You need a printer that's connected to your network, either wirelessly or via an ethernet cable into your wireless router.

EuroSmarzt also makes a print server called WePrint (macworld.com/6477) that you can run on your Mac; it will handle printing to printers that Print n Share can't print to directly. You just have to make sure your Mac is turned on, and that the WePrint Server software is running.

WePrint brings you another cool option: 3G printing, which is the ability to print to your printer when you're outside of your local area network. I took a walk to the corner store to get a sandwich, snapped a picture along the way, printed it from inside the store via a normal 3G data connection, and when I got home the print was waiting in my printer.

iPhoto's Flickr Powers

BY DERRICK STORY

Apple's iPhoto '09 can extend its organizational powers well beyond your desktop into the realm of online albums. From within the application, you can manage online Flickr (flickr.com) photo albums with the same ease you've enjoyed on your Mac.

You can organize and rearrange groups of pictures, add captions, and adjust your images in iPhoto, and then have all of those changes reflected online. Even better, this is a two-way connection. If you decide to change an image title in Flickr, that information is sent back to your iPhoto library. In a sense, this means that you have remote access to iPhoto, enabling you to tap into your library when you're out and about via networked devices such as the iPad.

Get Connected

To make the iPhoto connection, first sign up for a Flickr account. Armed with your name and password, select a handful of pictures in iPhoto, and go to Share ► Flickr, or click on the Flickr icon in the lower right corner of iPhoto. The first time through, iPhoto will ask for your account information and have you set the approval in Flickr for two-way communication.

Before you can start uploading, you have to set some parameters. The first option dictates who can view your photos on Flickr: Only You, Your Friends, Your Family, Your Friends and Family, or Anyone. These settings correspond to the permissions you set in Flickr for your other pictures. Next, pick your default photo size: Web, Optimized, or Actual Size.

Once you've made your selections, press the Publish button to send your images to Flickr. iPhoto will add a Flickr album icon in its Source list. Now you're connected and have a corresponding set of images in both iPhoto and Flickr.

Fine-tune Your Workflow

Once you are set up, there are a number of ways to refine your workflow. If you add captions and keywords to your pictures in iPhoto before uploading, Flickr will include your captions and convert your keywords to tags.

For mapping your images, the Places feature in iPhoto adds geotags to your pictures, and Flickr has the ability to share this information. To make this work, you have to enable two settings. In iPhoto, go to iPhoto ► Preferences ► Web and check the box next to Include Location Informa-



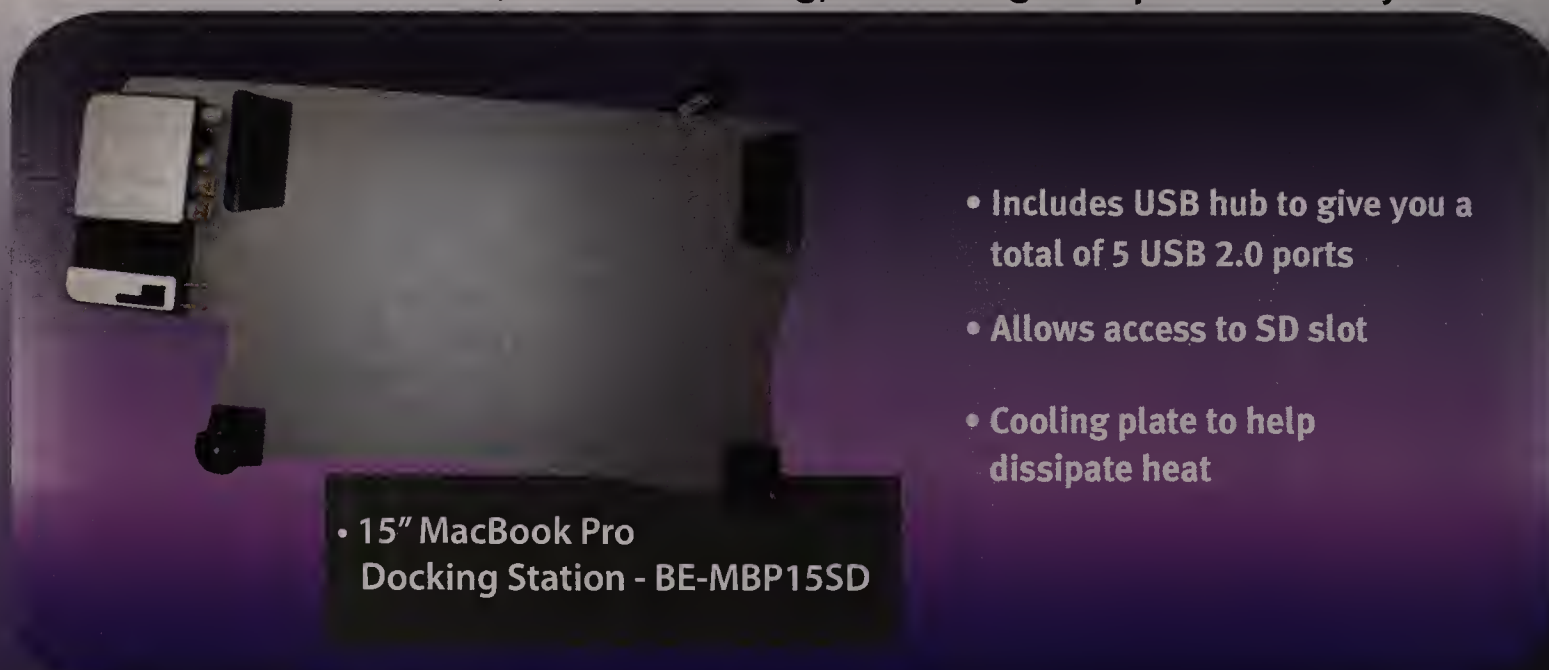
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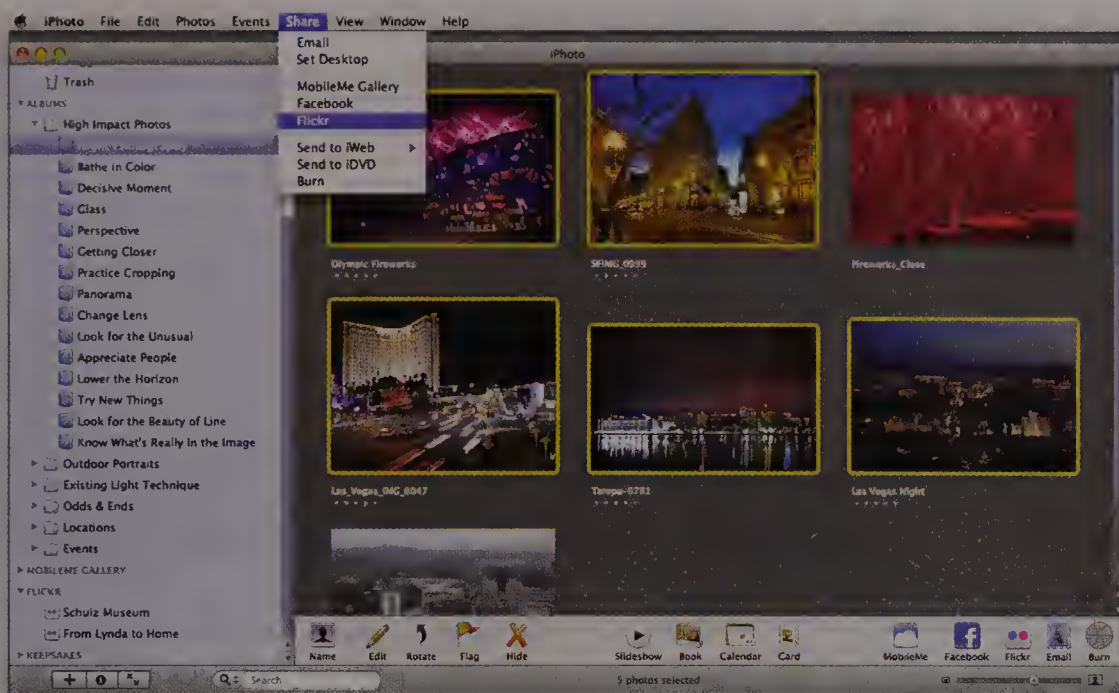


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Choosing Flickr To post images from your iPhoto album with online photo site Flickr, choose the images you want to upload and select Share ► Flickr.

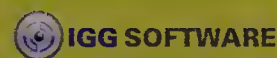
tion For Published Photos. Then in Flickr, go to You ► Your Account ► Privacy & Permissions ► Import EXIF Location Data. The location data will be exported from iPhoto and travel to Flickr.

You don't need to create a new album for each upload. It's possible to add images to your existing Flickr albums in iPhoto. If you want to include more pictures in a set of Flickr photos, just

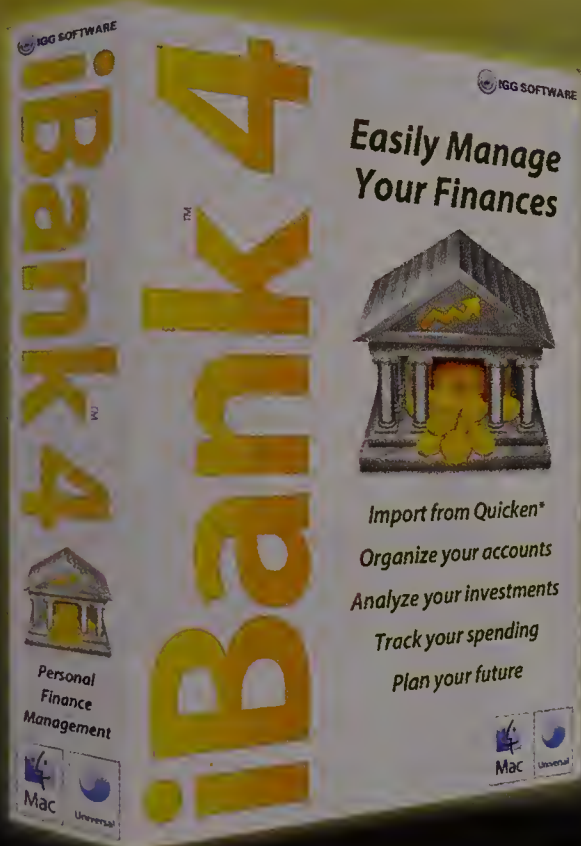
drag the images in iPhoto to the Flickr album in the Source list. If iPhoto doesn't update your set automatically, you can nudge it by Control-clicking on the album and choosing Check Now from the pop-up menu.

You can use iPhoto's powerful image-editing tools to adjust the way your pictures look online. If you don't like the way a photo looks in a browser, edit it in iPhoto and use the Check Now command to update it.

Not every change needs to start in iPhoto. You can change the photo title, caption, and keywords in Flickr, and iPhoto will download those changes and update your iPhoto library. This means that you can work on your iPhoto library from your iPhone, iPad, or any other network device that allows you to make changes to your Flickr images. (Many iPad and iPhone apps, such as Flickr-Stackr (macworld.com/6448), provide an attractive interface for displaying and updating your iPhoto-to-Flickr pictures.)



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Editing in Picasa Is a Picnik

BY IAN PAUL

Google recently added some great new features to its Picasa Web Albums (picasaweb.google.com), thanks to the company's recent acquisition of the photo-editing site Picnik. Picasa users can now tweak images right inside their Web browser without leaving Picasa, by using Picnik's tools for functions like color correction, cropping, resizing, and exposure adjustment.

To use the new editing options, first open Picasa Web Albums in your browser and select the photo you'd like to edit. To call up the Picnik editing tools, you can either select Edit In Picnik from the Edit drop-down menu above your image or click on the Picnik Edit button to the right of your image.

A window that contains the Picnik editing tools and your photo will appear. The main Edit tab includes options to rotate, crop, or resize an image. You can also adjust the photo for exposure and colors, and remove red eye. On the far left, there is an autocorrect option that quickly adjusts the image for you.

Next to Edit you'll see the Create tab. This is where Picnik keeps icons and

frames, options for airbrushing and fixing blemishes, tools that let you adjust the photo's color levels, and other, advanced tools. (Many of the advanced tools are premium features that require an upgrade and a small monthly fee to use.)

Most of the features under the Edit tab give you basic sliders for adjusting your photo, and any changes you make will immediately be reflected in the image below. Using the Stickers and Frames options, you can do things like add a Creative Commons icon to your photo.

To save an edited photo, click the Save To My Album button and choose whether you want to replace your original or create a new copy of your photo. After saving, Picnik returns you to the regular Picasa interface.

Picnik in Picasa is an added convenience for anyone who uses Picasa on the Web. The only downside is that, just as on Picnik.com, your photo-editing session will be occasionally interrupted by offers to upgrade to a premium Picnik account.



Online Image Editing Google's Picasa Web Albums now allow you to edit your photos on the Web by using Picnik's online-editing tools.

Reader Tips

Macworld readers share their photo advice

Everyone Can Choose Raw

You can always scale down a picture later for use in e-mail and online, where small image sizes are preferable. But you can't upscale a small image enough to make a decent print. For this reason I recommend that, if your camera can handle it, you shoot raw and repurpose the image later if you need to. Apps like iPhoto and Photoshop Elements will automatically downsize an image for e-mail to reduce the overhead involved in the process, and even these basic programs offer decent raw image processing capabilities. These days, software is not the limiting factor. The only real constraints are in the camera itself.

whitedog

iPhoto Speed Bump

Here is a way to get large iPhoto libraries to launch and quit faster: Break your library up into enough Events so that each Event has fewer than 2000 photos. By splitting my 46GB library containing 55,000 photos into Events that contain fewer than 2000 images each (and then reclaiming unused space from the database), I reduced my load times to 6 to 8 seconds and my quit times to 4 to 6 seconds.

DoctorT1

Tame a Large Library

I have a huge iPhoto library and I was at the point where iPhoto became unusable for me. I came across one tip that helped: Turn the photo count on the folders off. It's amazing how much faster iPhoto is when it doesn't show the count on the folders and albums.

UM

If you have a great photography tip you'd like to share, e-mail it to digitalphoto@macworld.com.

MacMania 11

February 4–16, 2011



Patagonian Adventure: Argentina, Uruguay, Falkland Islands, & Chile

InSightCruises.com/Mac-11

Round the Horn with MacMania! The stuff of legends awaits you in the cafes of Argentina, the pampas of Uruguay, the penguin-populous shores of the Falkland Islands, the grandeur of Patagonia, the Chilean fjords, and lively Santiago. Back at the rancho, Fake Steve talks satire, innovation, and destruction; Leo Laporte is your media mentor; Don McAllister brings you the practical mastery of your Mac; and Mac OS X ninja Sal Soghoian serves you apps from A to Z. Grassroots sessions with MacMania Alums Cherwinski, Grollman, and Jackson help get your creativity out there. Meet like-minded Mac types and get in on the MacMania 11 adventure on Holland America Line's ms Veendam, sailing Buenos Aires, Argentina to Santiago, Chile February 4–16, 2011.



PRE- and/or POST-CRUISE TOURS

IGUAZU FALLS & MACHU PICCHU ADVENTURE CALLING —

explore UNESCO World Heritage sites in pre- and post-MacMania 11 excursions. Breeze into legendary Iguazu Falls, home of the U-shaped 246' Devil's Throat cataract, January 31–February 2, 2011. Scale the Andes and absorb Machu Picchu's aura in luxury or standard packages, February 17–19, 2011. Details at InSightCruises.com/Mac-11.



Cruise prices start at \$1,629 per person. The MacMania 11 Program is \$1,095. Taxes and other fees are \$259 pp. For more info contact Neil at 650-787-5665 or neil@InSightCruises.com

Here is a sampling of the 24 sessions you can participate in while we're at sea. For a full listing of seminars visit InSightCruises.com/Mac11-seminars

Apple Apps from A to Z — This trio of two-hour classes covers the gamut of Apple applications, with an emphasis on a hands-on exploration of Apple's popular programs. The first class focuses on the practical, with an investigation of the essential Mac OS utilities: Mail, Address Book, iCal, TextEdit, and Preview. Learn how to make them work together while discovering their often overlooked abilities. The second class is all about iLife, where you explore the creative side of your computer self. With a focus on real-world examples, learn to combine elements from iPhoto, iMovie, and iWeb to construct an onboard blog that will make your friends and family back home regret they didn't come along. Next time maybe they'll listen to you. We finish the Apple apps overview with a look at iWork. **Speaker: Sal Soghoian**

Managing Multiple Macs — The likelihood is you have multiple Macs! Perhaps a desktop or two at home, possibly a desktop at the office, his and her laptops? Not to mention the iPods, iPhones, and iPads dotted liberally amongst the family. How to manage all these devices and the multiple synchronization tasks required? This session takes you through the various options for data sharing and synchronization both built into OSX and Mobile Me but also available through third-party apps via the cloud. **Speaker: Don McAllister**

Photoshop Elements 8 — When you have Photoshop Elements 8 skills in your photo editing repertoire, nothing gets lost in translation from your mind's eye to your images. Join Dr. Tom Grollman for two 90-minute sessions that will get you running in Photoshop Elements 8's Guided and Quick Fix modes, and give you a solid foundation in Full Edit's magic. **Speaker: Thomas Grollman, M.D.**

25 Things You Need to Know About Mac OS X — Even seasoned Mac veterans don't take the time to setup and streamline their computers to take advantage of the numerous features of Mac OS X. Get the most from your Mac and learn the shortcuts and custom settings used by the pros. **Speaker: Sal Soghoian**

Master Your iPad — The iPad is game-changing and will quickly become indispensable. Its easy interface combines simplicity with ability, enabling easy access to essential information. You'll explore the iPad's variety of uses: from browsing books, managing email, navigating maps, to building documents and presentations. **Speaker: Sal Soghoian**

Fake Steve: How a Simple Practical Joke Utterly Changed My Life — I was a bored-to-death 40-something tech reporter at Forbes magazine, and wanted to learn about blogging. So, on a lark, I started a blog where I pretended to be Steve Jobs. I thought I'd do it for a few weeks and then shut it down. Instead, four years later, the blog is more popular than ever. The whole experience has changed my life. Using slides and screen grabs, I'll share some of the funniest stuff from the blog, and a reminder that sometimes satire and humor are the best weapons for telling the truth. **Speaker: Dan Lyons**

60 iPhone Apps in 60 Minutes — With over 10,000 applications in the iTunes App Store it might be hard to find the best of the best. Leo's picked 60 fun, useful, and sometimes mind-boggling applications. Fasten your seatbelt for a fast-paced ride through the wonderful world of iPhone applications. **Speaker: Leo Laporte**

Turning Your Mac Mini Into a Media Center — Leo takes you beyond the AppleTV by showing how you can use a full-blown Macintosh to create the ultimate home entertainment center. Topics will include software solutions like Front Row, Boxee, XBMC, Plex, and EyeTV plus hardware solutions from El Gato and Pinnacle, and useful accessories like remote controls, cable box interfaces, and wired and wireless video distribution systems. You'll leave this hour ready to create your own system. **Speaker: Leo Laporte**

Creating Fabulous Videos — As camcorders become smaller and more powerful and desktop production tools offer more professional results, people are using their Macs to recapture their travels and adventures in an elegant way. But the challenge remains: how to organize the material into compelling shows to share with other people. Drawing from his long experience with photography and film, Wally Cherwinski covers how to plan, shoot, and shape video footage and stills into a memorable story. **Speaker: Wally Cherwinski, Ph.D.**

Macworld

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REVIEWS

Hardware, Software, and Accessories
for Making and Managing Photographs



HARDWARE

Canon EOS Rebel T2i △

Canon's Rebel T2i, an upgrade to the T1i, gives you incremental refinements that add up to improved image quality and movie recording. The T2i has been bumped up to 18 megapixels (compared to 15.1 megapixels for the T1i). Video capture is substantially improved and now features your choice of video size, up to 1080p. The camera has a gorgeous 3-inch LCD screen and both phase-detection and contrast-detection autofocus. The T2i provides excellent image quality in all formats, even in the auto modes (macworld.com/6456).

★★★★; \$800; Canon, www.usa.canon.com



Samsung NX10 △

The Samsung NX10 is a solid DSLR to hold and shoot with, featuring both a crisp 3-inch LCD screen and an electronic viewfinder for composing images. Unfortunately, the image quality is just average and the video quality lackluster. The menu system is easy to navigate, and you can control most popular settings by using buttons on the top and back of the camera. Processing raw files shot on the NX10 is cumbersome, especially for Mac users. The NX10 is best suited for casual photographers looking for lens interchangeability in a

smaller package than a typical DSLR (macworld.com/6457).

★★★★; \$700; Samsung, www.samsung.com

Sony Cyber-shot DSC-HX5V ▷

With its in-camera GPS, digital compass, wireless image and video sharing via TransferJet, accelerometer-driven panorama mode, and 1080i high-definition video capture in AVCHD format, it's easy to overlook the fact that the Sony Cyber-shot DSC-HX5V is, in fact, a camera. And it's an excellent camera at that, delivering great image quality. The 10-megapixel DSC-HX5V, with 10X optical zoom, also boasts some innovative and fun-to-use features. It

excels when shooting in low light without a flash, creating panoramic images, and correcting backlit images. The DSC-HX5V is a go-to pick for anyone who craves cool-factor extras backed by impressive performance (macworld.com/6332).

★★★★; \$349; Sony, www.sonymstyle.com



Top Products YOUR GUIDE TO THE BEST HARDWARE WE'VE TESTED



DIGITAL CAMERAS SLR

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
D-3000 (pictured) imaging.nikon.com	★★★★	\$500	10.2-megapixel	6090
EOS 7D www.canon.com	★★★★	\$1575	18-megapixel	6014
Alpha NEX-5 www.sonymstyle.com	★★★★	\$649	14.2-megapixel	6334



DIGITAL CAMERAS Point-and-Shoot

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
HZ35W (pictured) www.samsung.com	★★★★	\$238	12-megapixel	6331
PowerShot SX210 IS www.canon.com	★★★★	\$329	14.1-megapixel	6330



PRINTERS Inkjet

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
Officejet Pro 8000 Wireless (pictured) www.hp.com	★★★★	\$114	document, photo	6017
PictureMate Dash PM 260 www.epson.com	★★★★	\$107	snapshot, photo	5609

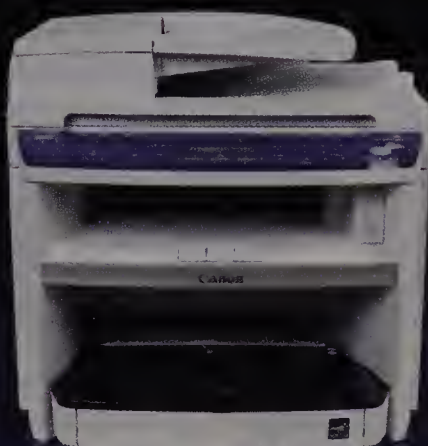
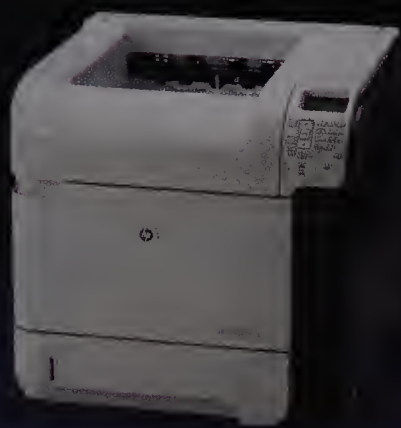
^A All prices are the best current prices taken from a PriceGrabber survey of retailers at press time. ^B In a browser's address field, typing a find code after macworld.com/ takes you to a product's review or overview.

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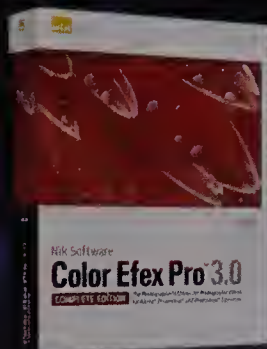
adorama.com



PHOTO EQUIPMENT



HARDWARE



SOFTWARE



Canon



SONY



Nikon



PENTAX



Panasonic

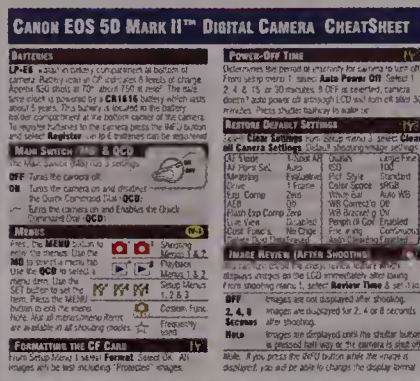


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HOT STUFF

What We're Raving
about This Month

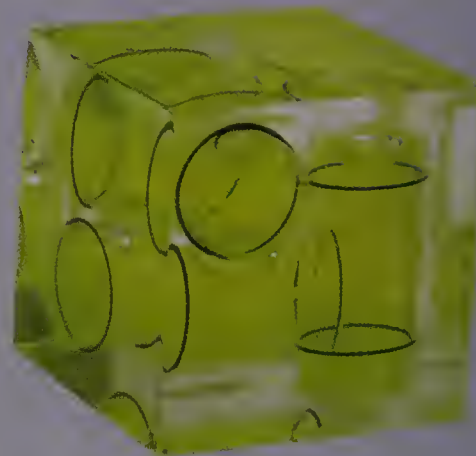


PhotoBert CheatSheets

Sometimes you want the essential information on how to use your camera or take better photos without reading an entire instruction manual. PhotoBert's CheatSheets are large, laminated prints of quick, easy-to-scan facts on a variety of photography topics. There are sheets packed with basic photography tips and sheets on Adobe's photography software. But the best cheat sheets are camera-specific. PhotoBert covers a range of point-and-shoot and DSLR cameras from Nikon, Canon, and Fuji. For each model there's a two-sided page filled with entry-level descriptions of the camera's different settings, parts, functions, and modes (\$5 to \$13; photocheatsheets.com).—HEATHER KELLY

Level Camera Cube

The Level Camera Cube is, as the name implies, a clear cube containing three separate levels—two horizontal levels and one vertical level. The cube fits into your camera's hot-shoe mount and can help you get perfectly aligned photos. It is great for aspiring architecture photographers and is also incredibly helpful when you're shooting multiple images to assemble into a panorama (\$15; photojojo.com).—HEATHER KELLY



Jodie's Camera Straps

Does your camera strap have the brand of your camera printed on it in large, uncreative lettering? Treat your camera to a beautiful, handcrafted camera strap from designer Jodie. Choose from various designs and themes. Straps

come in 1.5- and 2-inch widths. The straps are comfortably padded and as sturdy as they are pretty (\$25 to \$28; www.jodiescamerastraps.com).—HEATHER KELLY

EZ Sensor Cleaning Kit

Even cameras with dust-reduction technology can get dirty sensors. VisibleDust makes the EZ Sensor Cleaning Kit, which actually cleans the low-pass filter covering your camera's sensor. The kit contains four swabs and VisibleDust's Smear Away solution. The liquid, when applied with the swab, removes dust and stains and leaves behind an antistatic film to help keep your sensor clean (\$23; www.visibledust.com).—HEATHER KELLY



TOYCAMERA ANALOGCOLOR

This image-editing Mac application makes it easy to apply analog film effects to your digital photos. Drop any image onto the application to get started. You can select one of the program's 15 presets, including Fake Lomo, B&W High Contrast, or Dirty Pola (short for Polaroid). After you pick a filter, move the sliders on the right to change how strong the filter is or to adjust its blur and color settings. You can also choose a film processing type, add a light-leak effect, or put your image in a classic Polaroid frame (\$10; macworld.com/6449).—HEATHER KELLY

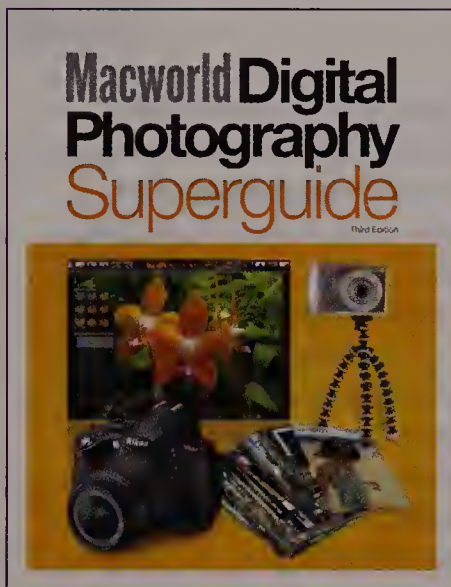
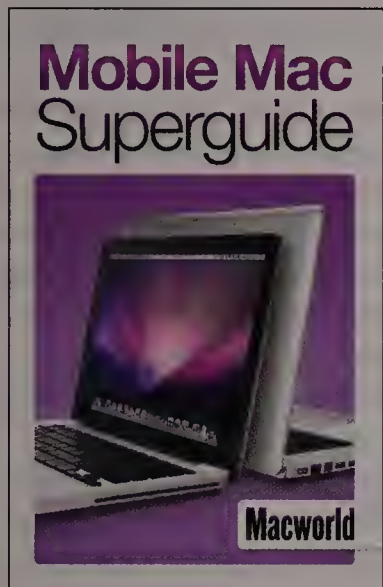
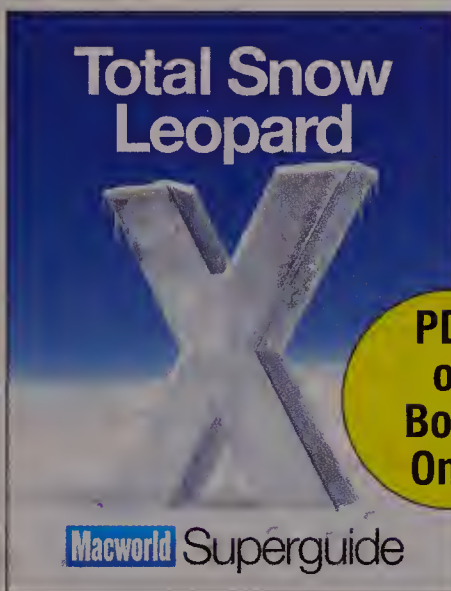
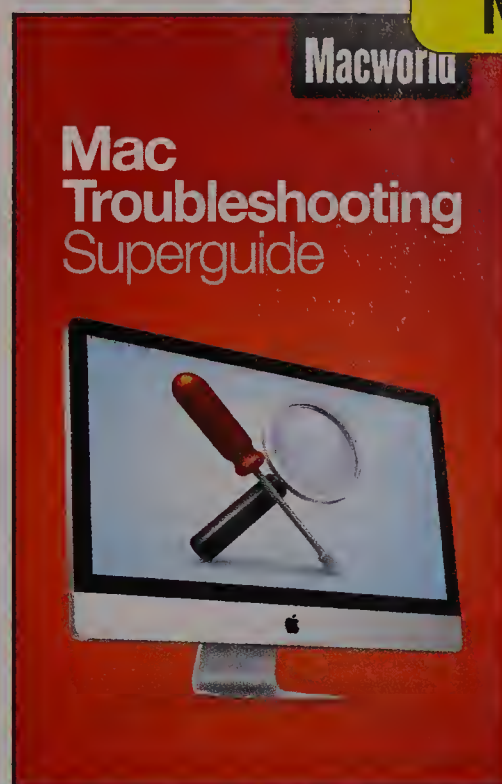
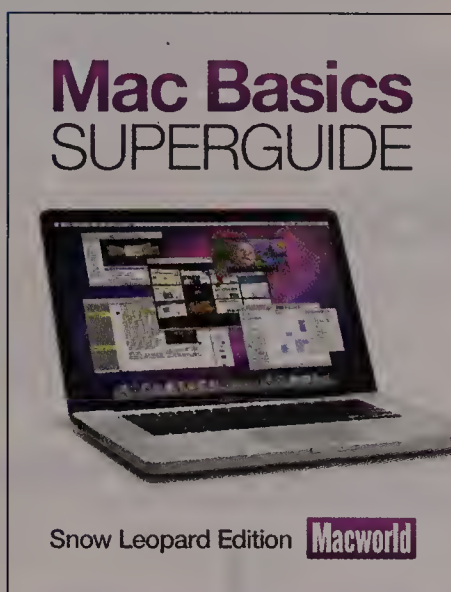


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Brush with Greatness

Your guide to creating unique brushes in Photoshop CS5

BY CHRIS MCVEIGH

Adobe Photoshop comes with a good complement of creative brushes, but occasionally a custom brush you need isn't available.

I'll walk you through the process of creating your own brushes. I wrote these steps for Photoshop CS5, but with minor modifications, they also can apply to earlier Photoshop versions.

Create Your Brush

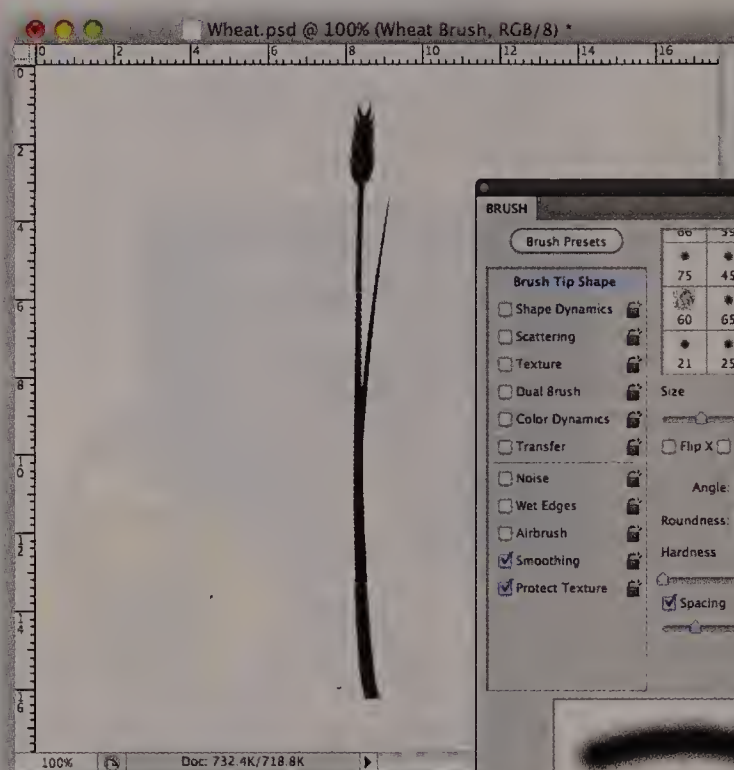
Photoshop brushes fall into two categories: paint-type and image-hose-type. A paint-type brush mimics the texture and behavior of a real painting tool, such as a paintbrush, a sponge brush, or a paint roller. An image-hose-type brush sprays a single graphic element onto your canvas, allowing you to vary its size, shape, and color.

Be aware that a brush tip is a grayscale image. A color image made into a brush tip will be converted to grayscale, and the gray values will be partially transparent; this transparency will carry over to brushstrokes. This means that any part of the brush tip that is black is fully opaque, and will yield full color when used as a brush.

Also, be conscious of brush size. If your brush tip is 500 by 500 pixels, you can scale it down without any loss of quality; however, if your original brush tip is only 25 by 25, scaling it up to 500 by 500 pixels will look terrible.

The source image for a brush tip can be just about anything. Here are three examples of image types you can use:

Spongy Brush Using a loofah sponge, dab black paint onto a canvas. After it dries, scan or photograph the texture and bring it into Photoshop. Convert the



Use Any Image You can create a brush from any image. Here is a brush fashioned from a wheat stalk silhouette.

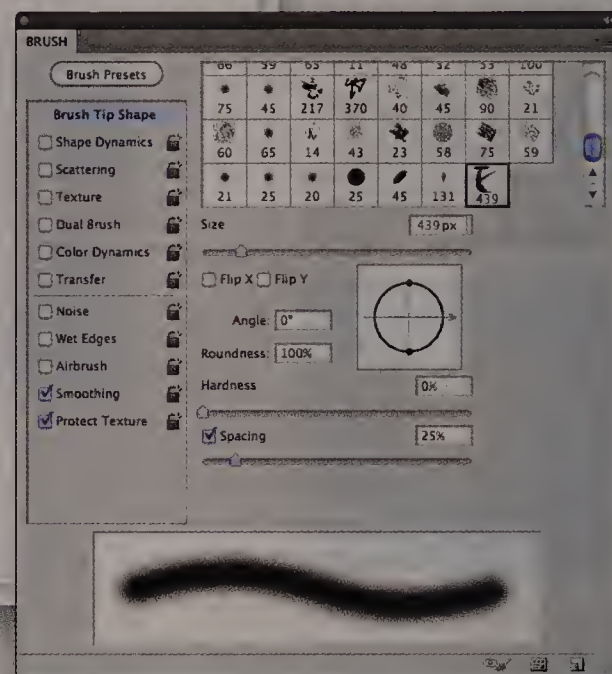


image to grayscale (Image ► Mode ► Grayscale) and tweak the levels (Image ► Adjustments ► Levels) so that white areas are free of texture and black areas are pure black.

Wheat Stalk Brush Use Adobe Illustrator (or another vector drawing app) to draw a single, detailed stalk of wheat. Do not use any color; the stalk itself should be black and the background transparent. Import the final artwork into Photoshop.

Flower Brush Open a photo of a flower in Photoshop. Convert the image to grayscale, and then mask the flower, if necessary. (For masking assistance in Photoshop, see my article "Masking 101" at macworld.com/5976). Tweak the levels to add more contrast to the flower. Make sure none of the flower areas are too light.

Once you've made the necessary edits, you may need to scale the document down. Choose Image ► Image Size, enter a maximum width or height of 500 pixels, and click OK. Now choose Select ► All, and then choose Edit ► Define Brush Preset and type a name for the brush. The brush head will be added to your current set of brushes.

Save the document and close the window. Now choose File ► New to create a new document that will serve as a scratch pad for the next step.

Fine-tune Your Brush

You'll need to fine-tune the new brush for best results. Select the Brush Tool and choose Window ► Brush. Once the window appears, click Brush Presets. You'll see your newly defined brush at the

bottom of the list of brush thumbnails.

After you've made your tweaks in the Brush window, you must save the brush as a new preset. Click the tiny document icon at the bottom right of the Brush window to add a new brush preset, enter a descriptive name for the brush, and click OK. The revised brush will appear right beside the original brush.

A warning: Changes you make to this brush are not automatically saved. Any time you change a brush, you must save it as a new preset.

Adjust Your Brush

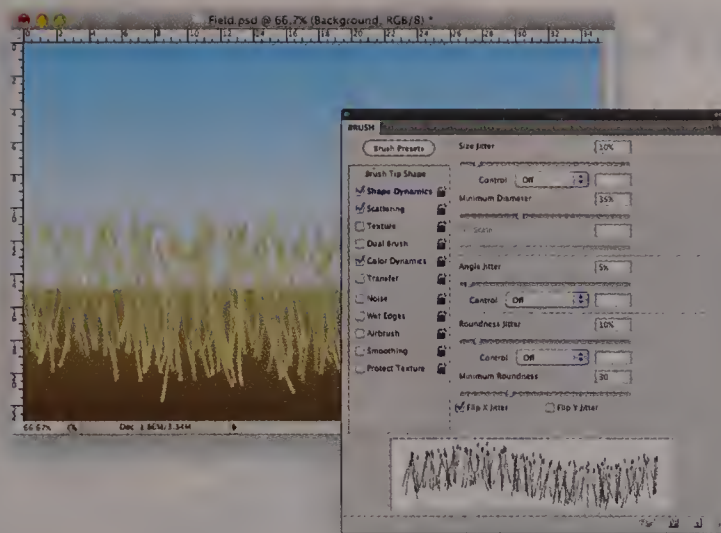
At the left side of the Brush window, you'll see a list of brush options. The options you enable will vary greatly with the type of brush you're building. If you're working on a brush that's shaped like a wheat stalk, for example, you'll be concerned with Shape Dynamics, Color Dynamics, and Scattering. At the bottom of the Brush window, you'll see a preview of your current brush. Every change you make to the brush will be reflected in a grayscale preview. For a color preview of your brush preset, use the Brush Tool to paint onto the current document (choose a different foreground color if you want to).

Here's an explanation of each section of the Brush window and what it does:

Brush Tip Shape Typically used for paint-type brushes, this setting lets you edit a brush's default size, as well as its angle, roundness, and hardness. You can also set the spacing for the brush bristles.

Shape Dynamics These controls are normally used for image-hose-type brushes. Size Jitter, Angle Jitter, and Roundness Jitter vary the shape of each brush mark (single dab), letting you create, say, fields of wheat in which each stalk has a unique shape.

Scattering Most often used for image-hose-type brushes, scattering varies the placement of each brush mark, allowing



Brush Shapes Adjusting Shape Dynamics lets you vary the size, angle, and roundness of each brush mark.

for a more natural distribution of paint dabs such as for grass, leaves, or snow.

Texture Ordinarily used for paint-type brushes, the Texture option lets you apply a pattern to each brush stroke to give the impression of texture (such as canvas).

Dual Brush Applicable to all brushes, this option combines two tips to create brush strokes; it places the texture of the secondary brush stroke within the boundaries of the primary brush stroke.

Color Dynamics These controls let you vary the color and intensity of your brush stroke, adding even more nuance to each mark.

Transfer This setting applies to all brushes. Opacity Jitter lets you randomize the transparency of each brush mark; Flow Jitter allows opacity variations that flow naturally from solid to clear.

The remaining five options, mostly used with paint-type brushes, have no adjustable settings.

Sharing Your Brush

Half the fun of creating a new brush is sharing it with others. Choose Edit ►Preset Manager. Shift-click on your new brush (or brushes) and then click Save Set. Give the set a name and save it to your desktop. You can now e-mail this file to friends and colleagues. Once they have it in hand, they can double-click it to automatically add your unique brushes to their current brush set.

Chris McVeigh is a freelance writer and toy photographer based in Halifax, Nova Scotia.

Restock Your Keynote Themes

BY ADAM BERENSTAIN

A good Keynote presentation requires an engaging speaker, compelling information, and beautiful slides. Apple's Keynote can provide that last part. But even Apple's elegant templates can't suit every occasion. Here's where to find new Keynote themes for your next presentation.



Keynote Theme Park offers 24 attractive, business-oriented themes. Most have more than a dozen master slides, and many sport patterns that connect with other slides across transitions to give the illusion of one continuous design (individual themes, \$20; sets of three, \$40; two collections of 12 themes, \$100 each; www.keynotethemepark.com).

For sheer volume, **iPresentee** is hard to beat. It has more than 100 themes, plus separate bundles of animated backgrounds, clip-art, 3D objects, and more (individual themes, \$10; bundle of 52 animated themes, \$40; bundle of 60 static themes, \$30; and more; www.ipresentee.com).

Jumsoft offers some 60 crisp, colorful themes. Each theme is designed for Keynote '08 or later and contains up to 32 slides in both standard and HD sizes (set of 25 static themes, \$39; set of 15 animated themes, \$39; set of 15 animated themes plus hundreds of photos, animations, and backgrounds, \$99; ten new themes, \$19 each; www.jumsoft.com).

Divine Fiat's 14 themes tend to be simple, with clean, attractive designs. Themes offer as many as 80 slides at standard to HD sizes; some require the latest version of Keynote to work (individual themes, \$26; bundle packs of two themes, \$47; set of all themes, \$130; www.divinefiat.com).

Scrapbooks Showcase Obscure Photos

BY KATHERINE MURRAY

Are there folders on your hard drive bulging with digital photos you never see? Perhaps you post one good photo on a blog, choose another one as a new profile picture, or e-mail a couple of good shots to friends and family. And maybe once in a while you print and frame a particularly meaningful one. But most of your photos just sit on your computer or are stuck on your phone. Is that all you can do with the multitude of fine images you capture? Not at all. One option is to create a digital scrapbook that can showcase more of your pictures.

More Than an Album

Digital scrapbooks differ from photo albums or photo sharing Websites because they enable you to tell the larger story behind a featured snapshot. By choosing a color scheme for the page background, picking a certain type of font for the text, and adding special creative touches (called *embellishments* in digital scrapbooking lingo), you can create a richer context for the photos you share.

For example, you might create a series of scrapbooking pages about a great afternoon at the lake, using page backgrounds with blues or greens to evoke the feeling of the water; a relaxed, playful text font that reflects a friendly mood; and embellishments like water droplets or flowers to enhance the overall effect. The techniques you use to actually create the page are fairly straightforward; just use your favorite image-editing software.

Pull Everything Together

Some programs, such as iRemember (macworld.com/6415) and iScrapbook (macworld.com/5680), are designed to help you pull together all the pieces and provide extras, like professionally produced embellishments. While the versatile PrintMaster (macworld.com/5915) doesn't offer scrapbook templates, you can easily use this program to create your scrapbook, as well as other art projects.

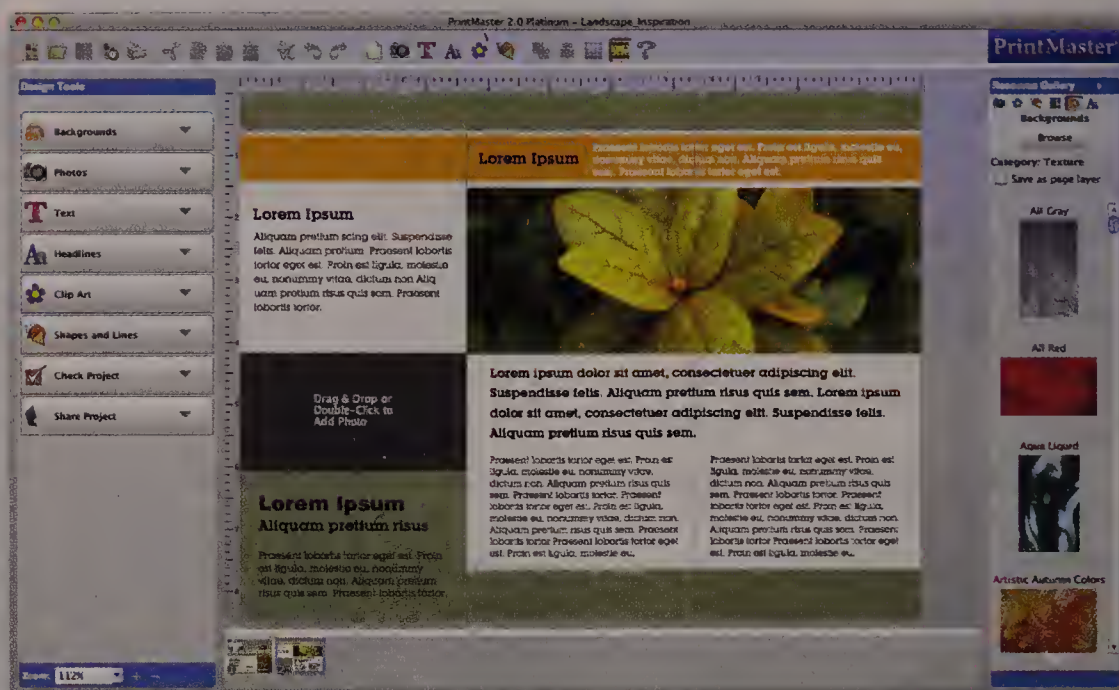


Image Embellishments Digital scrapbooking software offers page backgrounds, clip art, fonts, and more to help your pages reflect the mood of the images.

Scrapbooking Software

Digital scrapbooking software offers page backgrounds, clip art, fonts, and more to help you make your pages reflect the mood of the images.

And once you get a little experience creating a scrapbooking page based on a favorite photo or two, there's nothing stopping you from expanding your digital scrapbooking talents to create larger projects, such as a stylish portfolio showcasing your landscaping business's top designs, a family album spotlighting all birthdays this year, or a graduation album that spans a child's school career.

But scrapbooks aren't just for family and friends; you can also create scrapbooks to accomplish different goals and reach a wider audience:

- You could showcase the beauty of a wildflower meadow through different seasons as part of your environmental group's fundraising efforts.

- You could prepare a digital scrapbook of your high school marching band's trip to the state finals (this can be used for recruiting and fundraising the next year).

- You could display favorite family recipes, complete with the stories of the families and cooks involved.

- You could showcase the four-footed friends in your family, and share the result with others as a reminder to support the local animal shelter or rescue group.

Sharing Opportunities

Because you create your pages digitally, you can easily share them by e-mail or on the Web. If you prefer to have a genuine, hold-in-your-hands scrapbook, you can have the scrapbook professionally printed (iScrapbook and other scrapbooking programs offer online services that do this for you) or print the pages on your own color printer.

Whatever type of project you're aiming for, the heart of your digital scrapbooking page is the living story captured in the photo.

Katherine Murray is a technology writer in Indianapolis and is also the author of *Creative Digital Scrapbooking* (Peachpit Press, 2004).

Telegenic Typefaces

BY JAY J. NELSON

Recently, while watching a rerun of the 1960s TV series *I Dream of Jeannie*, I noticed the font used in the opening credits. It really caught my eye, and I wondered if there was a Website that would make it easy to find this and other fonts that were used in old TV shows and movies. A quick Google search for “I Dream of Jeannie font” pointed me to the Famous Fonts Website (macworld.com/6427). Eureka!

This site lists more than 300 fonts used in titles for TV shows, movies, and record albums, as well as logo fonts for bands, food and drink products, publications, games, cars, sports teams, companies, and more. However, I was concerned about the legality of using these fonts, as well as their quality.

Legal Issues

If you need a font for a commercial project, it's best to use fonts purchased from a commercial foundry because you can use them legally on any project.

Fortunately, the commercial fonts on the Famous Fonts site are identified as such, and are accompanied by links that let you purchase the font from its developer.

But what can you do if the font you want is not available as a commercial font—only as a free one? Helpfully, each free font on the Famous Fonts site has a Read Me file that lists the font's designer, details about the font, and the conditions under which you can legally use it.

This little text file is useful, because showcasing a font that has no identifiable source could put you in legal hot water. Unfortunately, you must download and uncompress each font file that interests you before you can access its Read Me file.

Another Website, FontSpace (www.fontspace.com), has more than 200 free fonts in the Famous Fonts category, each labeled according to its legal use. Most of the fonts are listed as being for “personal use only,” which means you're free to

Font Watching Popular culture is always fun to observe through the lens of the fonts associated with it. Several sites now feature the fonts of popular TV shows and movies.

use them on personal projects such as posters, invitations, and so on, while the ones labeled “commercial use friendly” may be used in any project.

Quality

In general, most fonts worth having cost money. Why? Because some free fonts have inconsistent details, rough edges, bad letterspacing, and possibly even technical glitches that will prevent you from printing them or embedding them in a PDF. In contrast, commercial fonts are created by skilled designers who meticulously craft and perfect each letter shape. Designers also determine the optimal spacing between all the important letter pairs and create the codes that generate important font information. Free fonts often lack these important details.

I've found that many free fonts whose designers are proud enough to attach their name and comments to them are of better quality than fonts from unidentified designers.



Free Fonts

I ran across lots of other sources of free fonts during my search, but, like the sites I list below, none of them readily indicated whether a font could be used in a commercial project. If you intend to use the font for a personal project, or if you don't mind downloading fonts and sifting through their Read Me files (if included), then you might consider these options: DailyFreeFonts (macworld.com/6418), Font-Styles (macworld.com/6419), MadTuts (macworld.com/6420), TypeNow (macworld.com/6417), and UrbanFonts (macworld.com/6416).

I had a great deal of fun flipping through these Websites' free fonts, as well as their commercial offerings. I'm sure that you'll find some favorite fonts of your own as you browse the sites, too.

Jay J. Nelson is the editor and publisher of *Design Tools Monthly*, an executive summary of graphic design news.

REVIEWS

Hardware, Software, and Accessories
for Your Creative Endeavors



HARDWARE

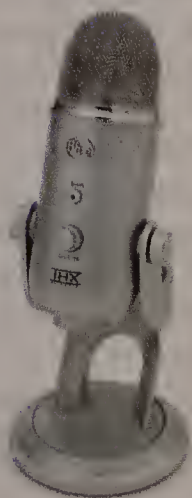
Cintiq 21UX ▴

For digital artists, the Wacom Cintiq 21UX interactive pen display holds the title of top tablet. Thanks to a recent redesign, the 22-inch Cintiq now offers twice the pressure sensitivity of its predecessor, two strategically repositioned Touch Strips, and 16 programmable ExpressKeys. Traditional graphics tablets require you to sketch on one surface and watch as the results appear on the monitor. With the Cintiq, you draw directly on the built-in screen. Wacom's Cintiq 21UX is a dream tool for electronic artists looking to expand their digital palettes. But at \$1999, and at about 23 pounds, many may find the tablet too costly or too bulky (macworld.com/6431).

★★★★; \$1999; Wacom, www.wacom.com

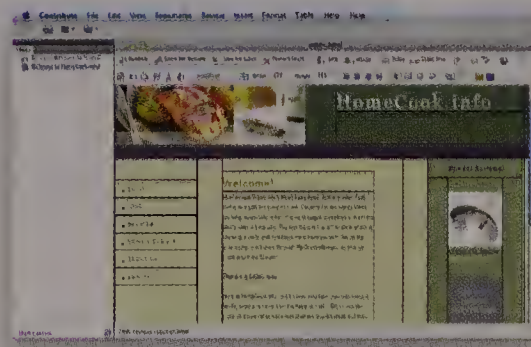
Yeti ▽

The THX-certified Yeti condenser microphone is versatile and offers sound that's good for the price, though not outstanding. Versatility comes in the form of a four-position pattern switch, gain control, a headphone port, a headphone volume control, and a mute switch. The pattern switch is one of the features Blue Microphones touts specifically. The Yeti can record in four patterns—stereo, cardioid, omnidirectional, and bidirectional. The mic could be slimmer, the knobs sturdier, and the sound more balanced



when you're recording from the front and back of the mic; but the Yeti sounds good, packs plenty of gain, and offers a lot of value and versatility in a \$150 USB mic (macworld.com/6430).

★★★★; \$150; Blue Microphones, www.bluemic.com



SOFTWARE

Contribute CS5 ▴

Adobe Contribute CS5 is the latest upgrade of the application that allows nontechnical Website content contributors—writers, artists, and editors—to add to and edit Websites and blogs, without having to know or work with HTML, CSS,

or JavaScript. Using page templates prepared by designers in Dreamweaver, contributors may only modify content within specified editable regions, preventing them from accidentally breaking the site's design or structure. The CS5 version offers a small handful of useful new features but is otherwise a pedestrian upgrade (macworld.com/6429).

★★★½; \$199; Adobe, www.adobe.com

MixPad 2.07

NCH Software's MixPad 2.07 is a supersimple audio mixing tool. It provides basic controls for adjusting volume levels and pan (left or right channel) and a way to apply effects, such as distortion or chorus. MixPad has a number of good qualities: It's easy to use, and it supports unlimited tracks and plenty of file formats. But the interface looks dated, the program lacks important features such as EQ and VST plug-in support, and it's too stripped down to justify the \$60 price tag (macworld.com/6428).

★★★½; \$60; NCH Software, www.nch.com.au

Top Products

YOUR GUIDE TO THE BEST HARDWARE WE'VE TESTED

DVD BURNERS

Desktop and Portable

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
d2 DVD±RW w/LightScribe www.lacie.com	★★★★	\$93	desktop	3900
MediaStation 8X External Blu-ray Writer (pictured) www.buffalotech.com	★★★★	\$278	Blu-ray	5344

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HDC-HS300 www.panasonic.com	★★★★	\$825	HDD/SD Card hybrid	6106

^A All prices are the best current prices taken from a PriceGrabber survey of retailers at press time. ^B In a browser's address field, typing a find code after macworld.com/ takes you to a product's review or overview.



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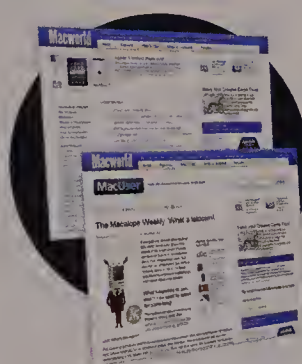
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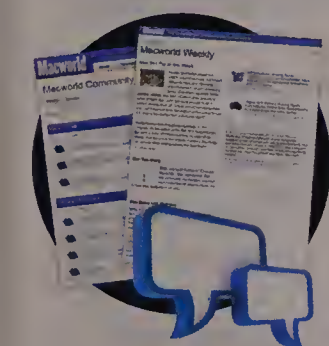
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Mac OS X Hints

The insider tips you won't get from Apple

BY MACWORLD STAFF

Add PDFs to iTunes for Syncing

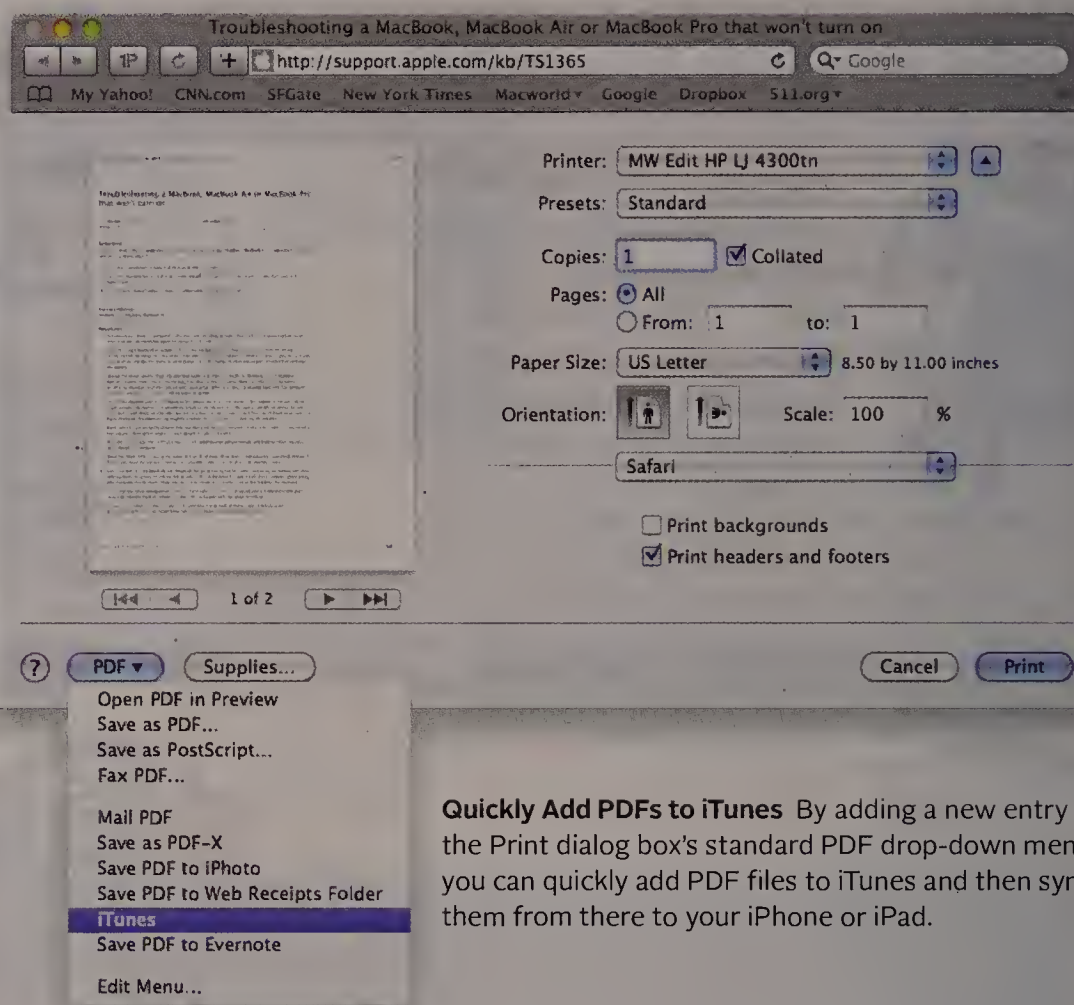
If you have iTunes 9.2 and iOS 4 installed on your iPad, iPhone, or iPod touch, the iBooks app can view PDF files. There's a simple way to get those PDFs into iTunes for syncing to your iOS device.

All you have to do is create an alias of iTunes.app and drag it to *youruserfolder/Library/PDF Services*. (Create the folder if it doesn't already exist.) If you wish, rename the alias something like 'Add to iTunes as PDF.'

That done, the next time you're viewing a document you'd like to read later on your iOS 4 device, choose File ▶ Print, click the PDF button on the bottom left corner of the Print dialog box, and choose iTunes from the list. (Bonus tip: To make the PDF more readable, turn on Safari 5's Reader function before you print.) The iTunes app will then launch and receive the PDF. Next time you sync your device, the document will be synced as well.

Save Room with Safari Hotkeys

We've written before about ways you can squeeze more bookmarks into Safari's Bookmarks Bar and Bookmarks menu, by using folders, special



Quickly Add PDFs to iTunes By adding a new entry to the Print dialog box's standard PDF drop-down menu, you can quickly add PDF files to iTunes and then sync them from there to your iPhone or iPad.

Have a Hint to Share?

Navigate to MacOSXHints.com to submit it. This column was based on tips from Dana J. Dawson, Nathan Greenstein, and anonymous contributors. Each month, the author of our favorite tip receives the *Help Desk* mug.



symbols, and shorter names. (See macworld.com/6397 for that last hint.) But one MacOSXHints.com reader found another way to deal with bookmark overload.

Two things make this trick work: One, all bookmarks appear in the Bookmarks menu. And two, System Preferences lets you add keyboard shortcuts to any menu item. That means you can assign a hotkey to a bookmark, stash the bookmark somewhere out of the way, and use the hotkey to launch it instead.

To set this trick up, create a bookmark, and be sure to give it a unique name. Next, go to the Keyboard Shortcuts tab in the Keyboard system preference. In the

list on the left, select Application Shortcuts and click the plus-sign (+) button below the list of shortcuts. In the resulting dialog box, set the Application to Safari. For Menu Title, enter the exact name of the bookmark you just created. In the Keyboard Shortcut box, enter the keyboard shortcut you want to assign to it. Make sure the shortcut isn't already in use. (Combinations using the Control key are a good bet.)

Now quit and reopen Safari. You should be able to launch the bookmark by using the hotkey combination you just assigned; if that doesn't work, try again with a different key combo. Assuming it works, you can now hide the bookmark itself in a subfolder of the

Bookmarks menu or in the overflow area of the Bookmarks Bar somewhere out of the way.

More .DOCX Conversions

After describing a few of the ways you can convert .docx files to .doc format (see *Mac OS X Hints*, July 2010), readers sent in more suggestions. One of the best: Use the command-line utility **textutil**.

In the Finder, navigate to the location of the .docx file you wish to convert. (This tip will also work for .txt, .html, .rtf, .rtfd, .wordml, .odt, and .webarchive files.) Open a Terminal window and enter **textutil -convert doc**, and then drag the file you want to convert from the Finder to the Terminal command line. A converted copy of the file—**myFile.doc**—should appear in the same folder as the original.

If you will need to do this a lot, you can deploy **textutil** as a service: Open up Automator and select the Service template. Set Service Receives Selected to Files Or Folders, and set In to Finder.

Next, drag Run Shell Script from the Utilities section of the Actions library into the pane on the right. Set the Pass Input drop-down menu to As Arguments. Next to **do** in the second line of the text box, enter **textutil -convert doc "\$@"**. Save the service with whatever name you like—'Convert To .Doc,' for example. When you next Control-click on a file in the Finder, you'll have a Convert To .Doc option in the context menu.

Camouflage Sensitive Text

Let's say you keep track of passwords and other login information in a text file. (You store the file on an encrypted disk image, of course, to keep it truly safe.) And let's say you want to have the document open on your screen without its contents being visible to casual passersby. Here's a solution:

Create your text file in Rich Text Format in an application like TextEdit. Enter some login details on a single line, such as: **Server username/password: Bob/\$w0rd**. Next, place periods and some amount of white space on either side of the username and password, so it

OS X 101

Automate Your Day

Don't use AppleScript? You really should; it can save you time and bother in all kinds of ways. Here, for example, is a script that *Macworld* contributor Glenn Fleishman uses to automate the beginning and end of every working day.

The script first produces a dialog box asking him whether he's coming or going (this includes everything from **set** to "**Arriving**"). It checks his response, and then activates the first (**if**) or second (**else**) part of the script.

You could adapt the script so that it opens, configures, or closes the apps you use every day. The **tell** statement addresses the app, the indented block tells it what to do, and **end tell** ends the section. Some commands (such as **activate**) are applicable to all apps; other commands are available in each program's library in AppleScript Editor (Window ► Library).



COMING OR GOING?

```
set s to display dialog "Arriving or Leaving?" buttons
["Arriving", "Leaving"] default button "Arriving"
if button returned of s is equal to "Arriving" then
    tell application "Mailsmith"
        set auto checking enabled to true
        check mail
    end tell
    tell application "iChat"
        activate
        log in
        set status message to "Working"
    end tell
else
    tell application "Mailsmith"
        set auto checking enabled to false
    end tell
    tell application "iChat"
        quit
    end tell
    tell application "Finder"
        activate
        set frontmost to true
        set visible of every process whose visible is true
    and name is not "Finder" to false
    end tell
end if
```

looks like this: **Server username/ password: . Bob ./.** \$w0rd. Next, highlight the username (**Bob**) and select Show Colors from the Format ► Font submenu. Use the resulting color palette to change the text color to white. (Don't change the color of the periods.) Do the same for the password (**\$w0rd**).

The line will then appear: **Server username/password: . ./. .** To the casual viewer, the space between the periods appears blank. But if you need to see the information, highlight the space between the periods; your text will appear as white within the highlight color.

Mac 911

Solutions to your most vexing Mac problems

BY CHRISTOPHER BREEN

Transfer Time Machine Backups

Q: I've been using Time Machine to back up to a 500GB external hard drive, but that drive is now full. I'd like to get a 1TB drive and use it for my backup. Is there a way to transfer the current backup on the old 500GB drive to the new hard drive?

Charles Franks

A: There is. Rolfje.com has a tutorial that explains how to do it (macworld.com/6391). I'll sum up the steps here.

After attaching, formatting (Mac Journaled), and naming the new drive, click and hold on the Time Machine icon in the Dock, and choose Open Time Machine Preferences. In that preference pane, turn off Time Machine.

Now unmount the old Time Machine drive by dragging it to the Trash. Remount it by either turning it off and then on again, or mounting it with Disk Utility, found in /Applications/Utilities. (You do this so that the drive loses its Time Machine icon and appears with the orange external-drive icon instead.)

Launch Disk Utility, select the old drive in Drive Utility's list of drives and volumes, and click on the Restore tab in the main part of the window. Drag the Time Machine partition from the old drive to the Source field in the Restore tab. Then drag the new drive's partition (assuming it has only one) to the Destination field.

Enable the Erase Destination option and click the Restore button. Wait while

Take My Pictures Connect your iPhone to an iPad via the iPad Camera Connection Kit to easily import your iPhone's photos to the iPad's Photos app.

Disk Utility does its job (this could take as long as several hours). When the job is complete, you'll see two identical volumes on the Desktop. Unmount and disconnect the one that shows the capacity of your old drive (500GB in this case).

With the new drive mounted, open Time Machine and switch it on. Click on Select Disk and direct Time Machine to the new drive that contains your copied Time Machine backup. Time Machine should do the right thing and use that drive for its backups. Should you need to restore your data, you'll find it on this new drive.

Copying an iPhone 4's Movies to an iPad

Q: Is it possible to offload completed iMovie for iPhone projects to an iPad by using the iPad Camera Connection Kit? I'd like to free up some space on my iPhone.

Via the Internet

A: As far as the iPad is concerned, the iPhone 4 (and earlier iPhones, for that matter) is just another camera: String the iPhone's USB cable between the iPhone's dock connector port and the USB camera connector attached to your iPad. The iPad's Photos app then launches, with the Camera tab selected. Any movies you've created with iMovie and then exported to the iPhone's Photos app will be available for you to copy to your iPad. (Yes, you must first export your movies to the Photos app. Raw iMovie projects aren't recognized by a connected iPad.) Just tap the movies you want to copy to the iPad and tap the Import button in the upper right corner of the iPad's screen. In a short time, the movies will be copied to the iPad.

This is a tremendous way to view the videos you created in iMovie on a big(ger) screen in a hurry, and it makes the iPad Camera Connection Kit all that much more valuable.



Have a Problem?

Go to the Mac 911 forum (macworld.com/2467) for help with your misbehaving Mac or applications.



Syncing iPhone Notes to MobileMe

Q: When I plug my iPhone 4 into my Mac and select it in iTunes, I see an option in the Info tab to sync my iPhone notes. But they sync only to the Mac's Mail application. I'd like them to sync with MobileMe too. Is there a way to do this?

Barbara Mehlman

A: Let's run through the steps required to sync notes among your iPhone, MobileMe, and the Mail application on your Mac.

On your iPhone (which must be running iOS 4 or later), tap Settings and then tap Mail, Contacts, Calendars. On the resulting screen, tap your MobileMe account and in the MobileMe account screen that appears, flip the On/Off toggle switch next to Notes to On. Return to the Mail, Contacts, Calendars screen and scroll to the very bottom, where you see the Notes entry. Tap this entry, and the Default Account screen appears. On this screen, select your MobileMe account rather than the On My iPhone or any other entry.

Launch the Mail app, choose Preferences from the Mail menu, and open the Composing tab. In the Addressing area you'll see the Create Notes And To Dos In pop-up menu. From that menu, select your MobileMe account. Then close the Preferences window. Now, click the triangle next to the Notes entry in Mail's Mailboxes column and select On My Mac. Select any notes that you'd like to sync with your MobileMe account and drag them onto the MobileMe entry.

Now, when you create a note on your iPhone or within Mail (you can view, but not create notes on MobileMe by going to me.com/mail and clicking on the Notes folder), that note should sync with your iPhone, Mail, and the MobileMe site. If it doesn't, delete the MobileMe account on your phone (after making sure everything in it is backed up), and then recreate the account by going to the iPhone's Mail, Contacts, Calendar setting; tapping MobileMe;

Bugs & Fixes BY TED LANDAU

iOS 4 brings significant changes to the iPhone. Here are suggestions for dealing with some of those changes.

Transfer Keychain Password Data If you own an older iPhone and upgrade to an iPhone 4, you will almost certainly want to transfer passwords stored on your old iPhone to your new one. To do this you must have iOS 4 running on your old phone, choose the option to encrypt the backup of your old phone from the old iPhone's Summary tab, and then restore your new iPhone from this encrypted backup. Otherwise, you'll have to manually reenter the passwords on your new iPhone.

Find Your iBook Purchases One of the new features in iOS 4 is iPhone (and iPod touch) support for the iBooks app. However, after downloading and installing the app, you may find that books you previously purchased on your iPad do not show up in iBooks on your iPhone. The solution is to connect your iPhone to iTunes and check the iPhone's Books tab. Assuming that your iPhone is connected to the same Mac you use to sync your iPad, your iPad-purchased books should be listed and available for syncing.

Find the Hold Button In iOS 4, the Hold button for the Phone app was replaced by the FaceTime button. The iPhone can still hold calls, however. Just tap and hold the Mute button (instead of just tapping it) to place a call on hold.

Manually Quit Apps to Solve Hang-ups With the new multitasking feature in iOS 4, if you leave and return to a supported app, the app remains in the same state as you left it. But suppose an app is stuck at a certain screen—perhaps due to some bug. The solution is to remove the app from the list of apps currently maintained for multitasking by double-clicking the Home button to bring up the multitask bar. Tap-hold on the problem app until it begins to wiggle. Then, tap on the minus badge that appears in the upper left of the app's icon. The next time you launch the app, it will launch from scratch.

Senior Contributor **Ted Landau** is the founder of MacFixIt (www.macfixit.com). Share your problems at bugs@macworld.com or on Macworld.com's Mac 911 forum.

and entering your name, username, and password to create the account. Then run through those iPhone configuration steps I outlined.

Dealing with an Unlockable iPhone

Q: At one time I was able to keep my iPhone from going to sleep by choosing the Never command in the Auto-Lock screen. I just looked at that screen on my iPhone, and the Never option has disappeared. Did Apple remove it with iOS 4?

Arthur Baker

A: No; this is a long-standing issue—and it's the expected behavior rather than a bug. My best

guess is that you've added an Exchange account to your iPhone. Security settings within Exchange servers can be (and often are) configured so that your iPhone (or iPad or iPod touch, for that matter) is required to lock after a certain period of time. Thus, the Never option disappears because it's an option you're not allowed to use. Why provide the temptation if it's a forbidden choice?

And it makes sense. Suppose you're carrying around state secrets on your iPhone, you've chosen to never lock it, and you leave it in the Russian embassy's back bedroom. I wouldn't want to be in your shoes come the yearly State Department review. To deal with the issue, you might send a note up the line to the group that adminis-

ters your Exchange account and see if your security settings can be tweaked so the iPhone can be configured to never auto-lock.

Rolling Back Your iPhone 3G to iPhone OS 3.1.3

Q: I installed iOS 4 on my iPhone 3G and I hate it. It's really slow and the screen acts like it's numb. Plus, it takes forever for it to respond or react. Is there any way I can uninstall iOS 4 and go back to what I had?

Margo Bangert

A: Before I offer instructions for downgrading the operating system on your iPhone, please switch off your phone and start it again. Sometimes this small act can clear out the cruft that's slowing down your phone. If that doesn't work, try

restoring your phone again with iOS 4. Sometimes that second restore can set things right. If that doesn't work, read on.

Lifehacker has put together a useful article on this subject, which you can locate at macworld.com/6392. You'll find the article and comments

MAC 101

Deleting a Previous System Folder

Q: I discovered a folder called Previous System on my iMac. What is it, and is it safe to delete?

Jacob Franks

A: This file resulted when you performed an Archive And Install installation of Mac OS at some time. When you did that, the installer placed a variety of system files—preference files, fonts, and plug-ins among them—in this Previous System folder. You can't boot your Mac from this folder—it's there simply for the storage of old system files.

If your Mac performs oddly after installing a new operating system version—it's missing some beloved fonts or plug-ins, for example—you can rummage around in this folder and retrieve the goodies you've lost. If you've run your Mac for a month or more and everything is tickety-boo, you're safe to toss out this Previous System folder.



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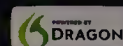
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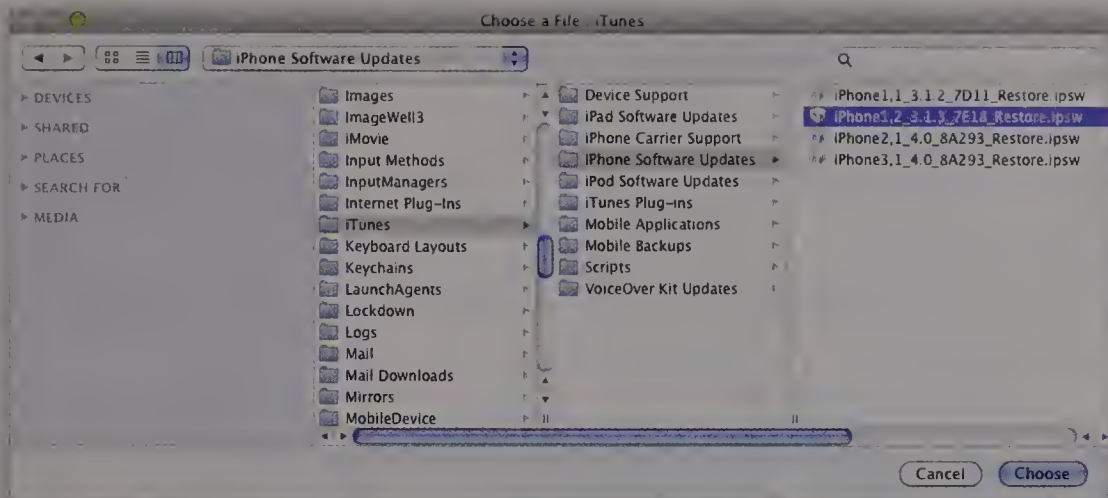


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helpful. In the meantime, here's the gist for downgrading the iPhone 3G (not the 3GS):

Locate or download a copy of the iPhone OS 3.1.3 .ipsw file. The Lifehacker story points to some sources. Put your phone into Device Firmware Update (DFU) mode. You do this by plugging in the phone, turning off the power, pressing and holding the Sleep/Wake and Home buttons simultaneously for 10 seconds, and then letting go of the Sleep/Wake button but continuing to hold the Home button for 10 more seconds. iTunes will then throw up an error message telling you that the phone is in recovery mode.

Select the iPhone in iTunes' Source list. Hold down the Option key and click Restore. You'll be prompted to choose a file to update from. Navigate to the 3.1.3 .ipsw file and click Choose (see "Choosing an iPhone Update"). You'll likely see



Choosing an iPhone Update Hold down the Option key and click Restore to choose an iPhone update file.

an error message on your Mac, and the phone will ask that you connect to iTunes. Download a free copy of RecBoot (macworld.com/6393). In the RecBoot package you'll find the RecBoot Exit Only application. Launch it and use

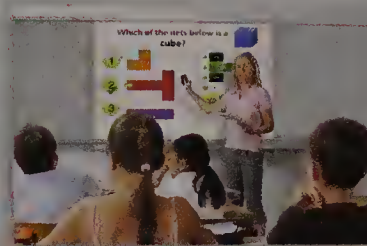
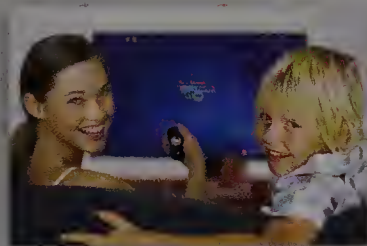
it to compel your iPhone to leave recovery mode.

Your iPhone should now boot to the Home screen. Restore it from a backup in iTunes. At this point it should be running the iPhone OS 3.1.3 software.

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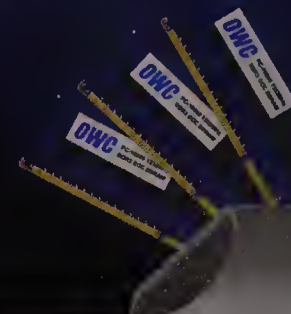
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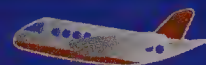
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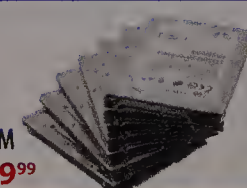
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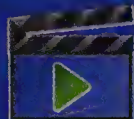
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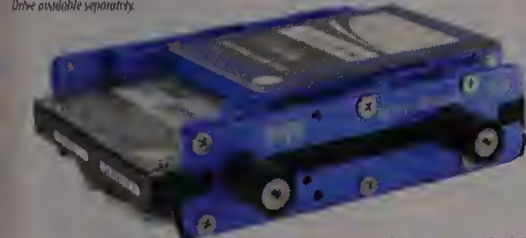
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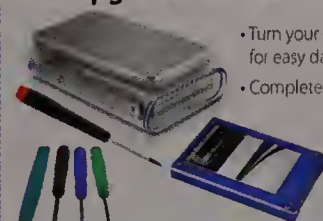
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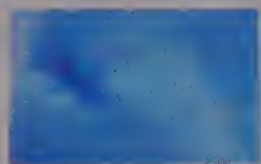
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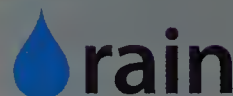
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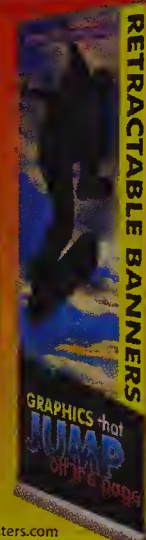
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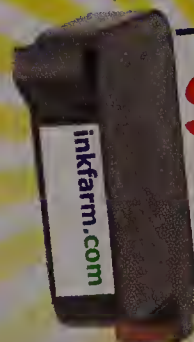
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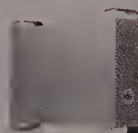
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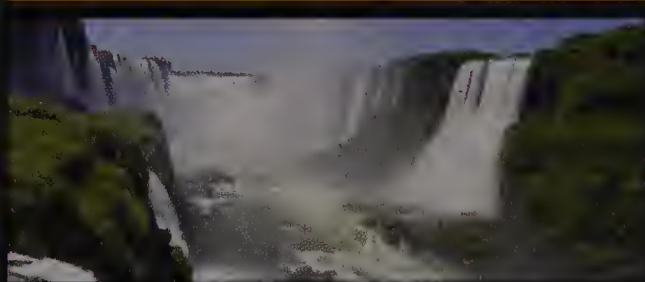
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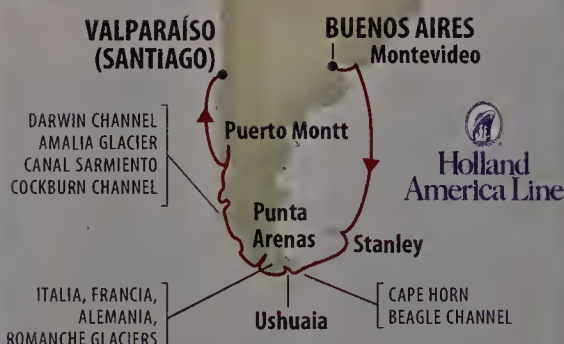


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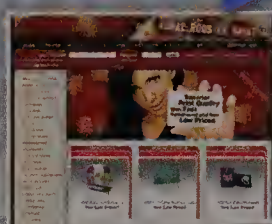
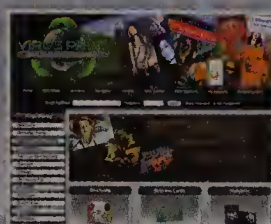
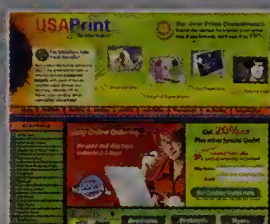
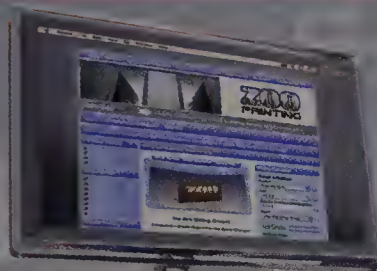
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Open versus Closed

The debate about closed systems is really open and shut

Apple is no stranger to controversial decisions. The company was among the first PC vendors to do away with old-style serial ports in favor of more modern standards such as USB and FireWire. The iMac single-handedly sounded the death knell for the floppy disk.

The Rest of Us

But more than any other product, it was the original Macintosh itself that smashed paradigms. When the Mac was introduced, it was widely criticized by the digerati of the day.

A monochrome display? Sure, it's got a high resolution, but it's small, and users want color.

A fixed 128k of memory? Surely one needs at least 640k of RAM.

It doesn't come with a built-in programming language? How is that even possible? How will a generation learn to program without BASIC?

Today, you hear much the same kind of rhetoric being applied to the iOS platform. How can a closed platform that doesn't allow for users to create their own programs ever succeed in the long run? Let me tell you how.

From Mouse to Fingertip

In many ways, iOS devices are probably what the people at Apple had in mind when they created the original Mac. These are appliances that can do magical things without the need for a programmer or computer expert to get involved. The Mac didn't succeed at that entirely, but today's iOS devices fulfill that dream.

The first Macintosh was widely critiqued for not having cursor keys. iOS devices go one better: They have *no* keys! The original Mac's mouse was all about direct manipulation. But it turns out that manipulation is even more direct when you use your fingers instead of a cursor on a screen.

And, of course, not everyone can—or even wants to—be a programmer. They do, however, want programs (or apps, as we call them these days) to enhance the functionality of their devices.

What's happening here is not new. It's the latest step in the evolution of technology. The only question is why it took so long.

A long time ago, high schools offered shop class. You learned all about cars, how they worked, how they could be repaired. It was necessary information because without it, you couldn't drive.

Today, if you're lucky, your school teaches driver's ed. Open the hood of many of today's modern cars and you'll find vast expanses of plastic, covering parts that are not intended to be user-serviceable. Cars have become closed systems.

10 Print 'Hello'

One day, someone will no doubt come out with a book bemoaning the fact that

One day someone will ask why Johnny can't program. But does he really need to?



Johnny can't program. But does Johnny really need to? Sure, if you have a particular interest in how computers work, you can still get a pretty good job. But let's face it: Teaching kids how to program lemonade-stand programs in BASIC is hardly worth the time.

What is important to teach is how to use a computer as an *appliance*. How writing and organizational software can help make good writers into better writers. How well-designed financial models can yield information scenarios that previously would have taken months to create—and how poorly designed ones can cost hundreds of millions of dollars.

Whether the venerable PC becomes the equivalent of a truck (as Mr. Jobs recently predicted) doesn't really matter. More and more, PCs will evolve into information appliances that will serve users well—even if those users have little to no idea how they work.

The debate about computers and other tech gadgets—should they be open systems fit for tinkering, or closed systems that aren't meant to be cracked open—will no doubt continue for some time to come. But I expect it's a debate that will matter more in the coffee shops of Silicon Valley or in online screeds that few will read and fewer will care about.

The rest of us will be too busy getting work done. We'll be communicating and collaborating with friends, family, and colleagues. And this debate won't last any longer than did the lament that our children don't know how to open up the hood of the family car and change the fan belt.

Michael Gartenberg is a partner at Altimeter Group, where he specializes in providing analysis of personal technology. He writes regularly for *Macworld*, *Computerworld*, *Endgadget*, and *SlashGear*.

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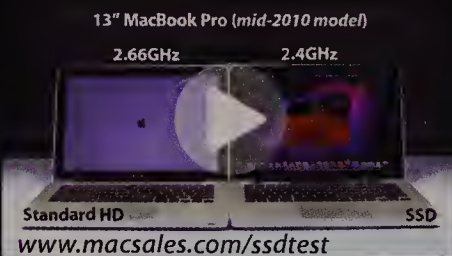
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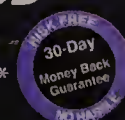


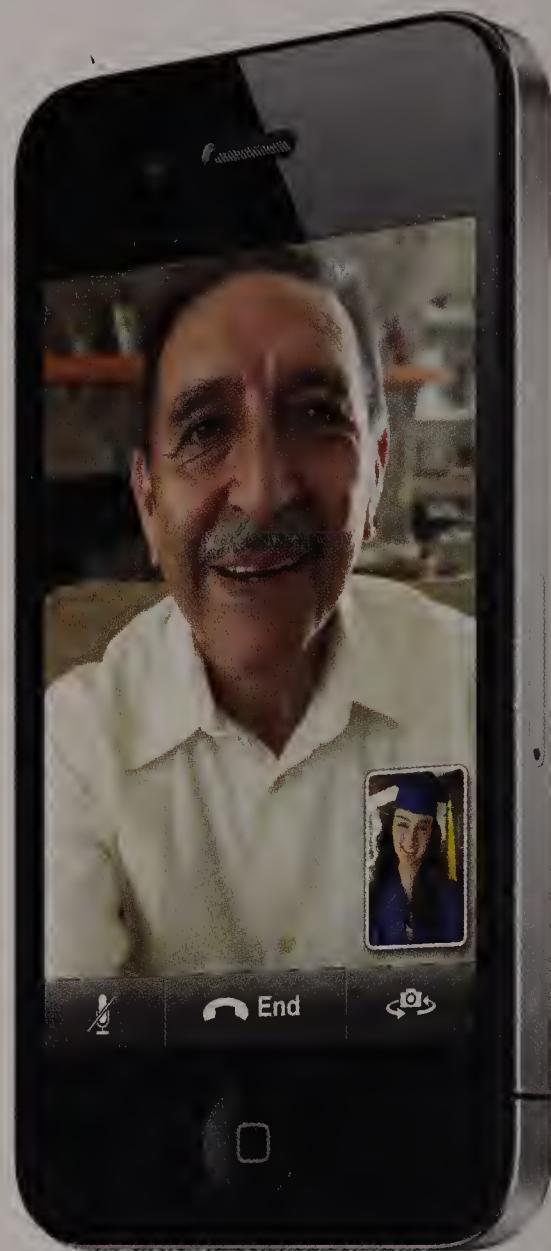
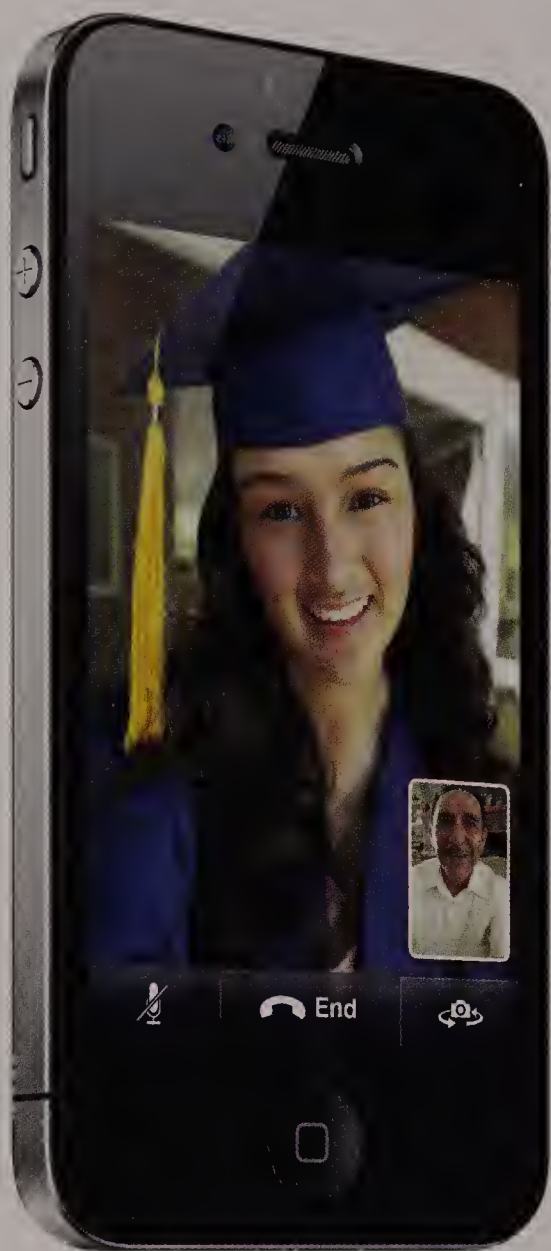
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